# CH \$165.00 4793

#### TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 ETAS ID: TM864464

| SUBMISSION TYPE:      | NEW ASSIGNMENT                           |
|-----------------------|------------------------------------------|
| NATURE OF CONVEYANCE: | INTELLECTUAL PROPERTY SECURITY AGREEMENT |

#### **CONVEYING PARTY DATA**

| Name        | Formerly | Execution Date | Entity Type           |
|-------------|----------|----------------|-----------------------|
| IBOSS, INC. |          | 12/15/2020     | Corporation: DELAWARE |

#### **RECEIVING PARTY DATA**

| Name:           | WILMINGTON SAVINGS FUND SOCIETY, FSB |
|-----------------|--------------------------------------|
| Street Address: | WSFS Bank Center, 500 Delaware       |
| City:           | Wilmington                           |
| State/Country:  | DELAWARE                             |
| Postal Code:    | 19801                                |
| Entity Type:    | Federal Savings Bank: UNITED STATES  |

#### **PROPERTY NUMBERS Total: 6**

| Property Type        | Number  | Word Mark    |
|----------------------|---------|--------------|
| Registration Number: | 4793493 | FIRESPHERE   |
| Registration Number: | 4807013 | FIRESPHERE   |
| Registration Number: | 5054725 | IBOSSCONNECT |
| Registration Number: | 5072006 | IBOSS        |
| Registration Number: | 4792906 | IBOSS        |
| Registration Number: | 4504679 | MOBILEETHER  |

#### **CORRESPONDENCE DATA**

**Fax Number:** 2028874288

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** 2028874000

**Email:** mbeyene@akingump.com, DC\_IPDocketing@AKINGUMP.com

Correspondent Name: AKIN GUMP STRAUSS HAUER & FELD LLP

Address Line 1: 2001 K Street N.W.

Address Line 4: Washington DC, D.C. 20006

| ATTORNEY DOCKET NUMBER: | 699321.0009       |
|-------------------------|-------------------|
| NAME OF SUBMITTER:      | Mussie B Beyene   |
| SIGNATURE:              | /MUSSIE B BEYENE/ |
| DATE SIGNED:            | 12/28/2023        |

#### **Total Attachments: 18**

- source=3. iboss Intellectual Property Security Agreement [Executed] 4846-7303-5476, 2 4864-4724-7405, 2#page1.tif
- source=3. iboss Intellectual Property Security Agreement [Executed] 4846-7303-5476, 2 4864-4724-7405, 2#page2.tif
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- source=3. iboss Intellectual Property Security Agreement [Executed] 4846-7303-5476, 2 4864-4724-7405, 2#page18.tif

Notwithstanding any other provision contained herein, this Intellectual Property Security Agreement (as defined below), the Liens created hereby and the rights, remedies, duties and obligations provided for herein are subject in all respects to the provisions of the Subordination Agreement (as defined in the Credit Agreement, as hereinafter defined). In the event of any conflict or inconsistency between the provisions of this Intellectual Property Security Agreement and the Subordination Agreement, the provisions of the Subordination Agreement shall control.

#### INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement (as it may be amended, restated, supplemented or modified from time to time, this "Agreement") is entered into as of December 15, 2020 by and between Wilmington Savings Fund Society, FSB, as administrative agent (in such capacity, "Agent"), for the ratable benefit of each bank and other financial institution, from time to time party to the Loan Agreement (as defined below) (each such party, collectively, "Lender"), and each of the undersigned identified on the signature pages hereto as Grantors (together with any other entity that may become a party hereto as provided herein, each a "Grantor", and collectively, the "Grantors"). Capitalized terms used herein without definition shall have the meaning set forth in the Loan Agreement (as defined below).

#### **RECITALS**

- A. Agent, Lender and Grantors have entered into that certain Term Loan Credit Agreement, dated as of the date hereof (as amended, restated, supplemented or otherwise modified from time to time, the "Loan Agreement"), pursuant to which Lender has agreed to make certain loans ("Loans") to iboss, Inc. ("Borrower").
- B. Agent and Grantors have entered into that certain Pledge and Security Agreement, dated as of the date hereof (as amended, restated, supplemented or otherwise modified from time to time, the "Security Agreement"), pursuant to which Grantors have granted to Agent, for the benefit of the Secured Parties, a valid and continuing security interest in the Intellectual Property Collateral (as defined below).
- C. Pursuant to the terms of the Loan Agreement and the Security Agreement and in furtherance thereof, Grantors have duly authorized the execution, delivery and performance of this Agreement.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of Borrower's obligations to Lender, Grantors hereby represent, warrant, covenant and agree as follows:

#### **AGREEMENT**

1. <u>Grant of Security Interest</u>. Each Grantor hereby collaterally pledges and grants to Agent, on behalf of and for the ratable benefit of the Secured Parties, a security interest in all of such Grantors' right, title and interest in, to and under the following Intellectual Property owned by such Grantor, to secure the prompt and complete payment and performance of the Secured

Obligations, excluding the Excluded Assets (all of which shall collectively be called the "Intellectual Property Collateral"):

- (a) Any and all Copyrights, including without limitation those set forth on Exhibit A attached hereto;
- (b) Any and all Patents, including without limitation the patents and patent applications set forth on Exhibit B attached hereto (collectively, the "Patents");
- (c) Any and all Trademarks, including without limitation those set forth on Exhibit C attached hereto (collectively, the "Trademarks");
- (d) upon the occurrence and during the continuance of an Event of Default, any and all rights to sue for past, present and future infringement of the Intellectual Property identified above and the goodwill associated therewith; and
- (e) all amendments, extensions, renewals and extensions of any of the Copyrights, Trademarks or Patents.
- 2. <u>Recordation</u>. Grantors authorize the Commissioner for Patents, the Commissioner for Trademarks and the Register of Copyrights and any other government officials to record and register this Agreement upon request by Agent.
- 3. <u>Loan Documents</u>. This Agreement has been entered into pursuant to and in conjunction with the Loan Documents, which are hereby incorporated by reference. The provisions of the Loan Agreement shall supersede and control over any conflicting or inconsistent provision herein. The rights, protections, immunities, indemnities and remedies of Agent with respect to the Intellectual Property Collateral are as provided to it as Agent under the Security Agreement and the other Loan Documents, and nothing in this Agreement shall be deemed to limit such rights and remedies.
- 4. <u>Execution in Counterparts</u>. This Agreement may be executed in counterparts (and by different parties hereto in different counterparts), each of which shall constitute an original, but all of which when taken together shall constitute a single contract. Delivery of an executed counterpart of a signature page to this Agreement by facsimile or in electronic (i.e., "pdf" or "tif") format shall be effective as delivery of a manually executed counterpart of this Agreement.
- 5. <u>Successors and Assigns</u>. This Agreement will be binding on and shall inure to the benefit of the parties hereto and their respective successors and assignees as permitted under Section 12.04 of the Loan Agreement.
- 6. <u>Governing Law</u>. This Agreement and any claim, controversy, dispute or cause of action (whether in contract or tort or otherwise) based upon, arising out of or relating to this Agreement and the transactions contemplated hereby and thereby shall be governed by, and construed in accordance with, the laws of the United States and the State of New York.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, the parties have caused this Agreement to be duly executed effective as of the date set forth above.

**Addresses of Grantors:** 

IBOSS, INC.

**GRANTORS** 

IBOSS, INC. 101 Federal Street, 23rd Floor Boston, MA 02110 United States

Attention: Kyle Bettigole

Name: Kyle Bettigole

kyle Bettigole

Title: Secretary

IN WITNESS WHEREOF, the parties have caused this Agreement to be duly executed effective as of the date set forth above.

### Address of Agent:

Wilmington Savings Fund Society, FSB WSFS Bank Center 500 Delaware Wilmington, Delaware 19801 Attention: Global Capital Markets - iboss AGENT

By:

Wilmington Savings Fund Society, FSB

Name: Raye Goldsborough

Title: Assistant Vice President

# EXHIBIT A

Copyrights

None.

# EXHIBIT B

Patents

(see attached)

# **PATENTS**

| Reference #                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                        | Publication Date                                                                                                           | Patent #                                                                                                                                                                               | Issue Date                                                                                                                                                                                                                      | Assignee/Owner                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 38097-0002001                                                                                                                                                                                                                                                                                                                                                                                                                                     | THRESHOLD-BASED COMPUTER VIDEO OUTPUT RECORDING APPLICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                        | 12/09/2010                                                                                                                 | 8,837,902                                                                                                                                                                              | 9/16/2014                                                                                                                                                                                                                       | Iboss, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 38097-0013001                                                                                                                                                                                                                                                                                                                                                                                                                                     | RECORDING ACTIVITY-TRIGGERED COMPUTER VIDEO OUTPUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 38097-0013002                                                                                                                                                                                                                                                                                                                                                                                                                                     | RECORDING ACTIVITY-TRIGGERED COMPUTER VIDEO OUTPUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                        | 11/28/2013                                                                                                                 | 8,984,585                                                                                                                                                                              | 3/17/2015                                                                                                                                                                                                                       | Iboss, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 38097-0013003                                                                                                                                                                                                                                                                                                                                                                                                                                     | RECORDING ACTIVITY-TRIGGERED COMPUTER VIDEO OUTPUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                        | 09/17/2015                                                                                                                 | 9,378,365                                                                                                                                                                              | 6/28/2016                                                                                                                                                                                                                       | Iboss, Inc.                                                                                                                                                                                                                                                                                                                                                                                                            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| 38097-0003DE1                                                                                                                                                                                                                                                                                                                                                                                                                                     | RESTRICTING COMMUNICATION OVER AN ENCRYPTED NETWORK CONNECTION TO INTERNET DOMAINS THAT SHARE COMMON IP ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 38097-0003EP1                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 38097-0003FR1                                                                                                                                                                                                                                                                                                                                                                                                                                     | RESTRICTING COMMUNICATION OVER AN ENCRYPTED NETWORK CONNECTION TO INTERNET DOMAINS THAT SHARE COMMON IP ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 38097-0003GB1                                                                                                                                                                                                                                                                                                                                                                                                                                     | RESTRICTING COMMUNICATION OVER AN ENCRYPTED NETWORK CONNECTION TO INTERNET DOMAINS THAT SHARE COMMON IP ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 38097-0003001                                                                                                                                                                                                                                                                                                                                                                                                                                     | RESTRICTING COMMUNICATION OVER AN ENCRYPTED NETWORK CONNECTION TO INTERNET DOMAINS THAT SHARE COMMON IP ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                        | 10/24/2013                                                                                                                 | 9,313,205                                                                                                                                                                              | 4/12/2016                                                                                                                                                                                                                       | lboss, Inc.                                                                                                                                                                                                                                                                                                                                                                                                            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| 38097-0003002                                                                                                                                                                                                                                                                                                                                                                                                                                     | RESTRICTING COMMUNICATION OVER AN ENCRYPTED NETWORK CONNECTION TO INTERNET DOMAINS THAT SHARE COMMON IP ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                        | 08/04/2016                                                                                                                 | 9,537,823                                                                                                                                                                              | 1/3/2017                                                                                                                                                                                                                        | lboss, Inc.                                                                                                                                                                                                                                                                                                                                                                                                            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| 38097-0003003                                                                                                                                                                                                                                                                                                                                                                                                                                     | RESTRICTING COMMUNICATION OVER AN ENCRYPTED NETWORK CONNECTION TO INTERNET DOMAINS THAT SHARE COMMON IP ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 38097-0003004                                                                                                                                                                                                                                                                                                                                                                                                                                     | RESTRICTING COMMUNICATION OVER AN ENCRYPTED NETWORK CONNECTION TO INTERNET DOMAINS THAT SHARE COMMON IP ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                        | 09/20/2018                                                                                                                 | 10,257,157                                                                                                                                                                             | 4/9/2019                                                                                                                                                                                                                        | iBoss, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 38097-0003WO1                                                                                                                                                                                                                                                                                                                                                                                                                                     | RESTRICTING COMMUNICATION OVER AN ENCRYPTED NETWORK CONNECTION TO INTERNET DOMAINS THAT SHARE COMMON IP ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 38097-0004CA1                                                                                                                                                                                                                                                                                                                                                                                                                                     | IMPLICITLY LINKING ACCESS POLICIES USING GROUP NAMES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| 38097-0022CA1                                                                                                                                                                                                                                                                                                                                                                                                                                     | LOCATION BASED NETWORK USAGE POLICIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 38097-0004EP1                                                                                                                                                                                                                                                                                                                                                                                                                                     | IMPLICITLY LINKING ACCESS POLICIES USING GROUP NAMES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| 38097-0022EP1                                                                                                                                                                                                                                                                                                                                                                                                                                     | LOCATION BASED NETWORK USAGE POLICIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 38097-0022EF1                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 38097-0004EP2                                                                                                                                                                                                                                                                                                                                                                                                                                     | IMPLICITLY LINKING ACCESS POLICIES USING GROUP NAMES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| 38097-0004001                                                                                                                                                                                                                                                                                                                                                                                                                                     | IMPLICITLY LINKING ACCESS POLICIES USING GROUP NAMES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| 38097-0004002                                                                                                                                                                                                                                                                                                                                                                                                                                     | IMPLICITLY LINKING ACCESS POLICIES USING GROUP NAMES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| 38097-0004WO1                                                                                                                                                                                                                                                                                                                                                                                                                                     | IMPLICITLY LINKING ACCESS POLICIES USING GROUP NAMES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| 38097-0022WO1                                                                                                                                                                                                                                                                                                                                                                                                                                     | LOCATION BASED NETWORK USAGE POLICIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 38097-0005001                                                                                                                                                                                                                                                                                                                                                                                                                                     | PRIORITIZING CONTENT CLASSIFICATION CATEGORIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 38097-0006CA1                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 38097-0006EP1                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 38097-0006001                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                        |                                                                                                                            | 8,819,829                                                                                                                                                                              | 8/26/2014                                                                                                                                                                                                                       | Iboss, Inc.                                                                                                                                                                                                                                                                                                                                                                                                            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| 38097-0006WO1                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION  CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| 38097-0009001                                                                                                                                                                                                                                                                                                                                                                                                                                     | MATCHING OF GROUP NAMES TO DIRECTORY SERVICE GROUPS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 38097-0008CA1                                                                                                                                                                                                                                                                                                                                                                                                                                     | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 38097-0008CA2                                                                                                                                                                                                                                                                                                                                                                                                                                     | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 38097-0008DE1                                                                                                                                                                                                                                                                                                                                                                                                                                     | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 38097-0008EP1                                                                                                                                                                                                                                                                                                                                                                                                                                     | SELECTIVELY PERFORMING MAN IN THE MIDDLE DEGRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 38097-0008FR1                                                                                                                                                                                                                                                                                                                                                                                                                                     | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 38097-0008GB1                                                                                                                                                                                                                                                                                                                                                                                                                                     | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 38097-0008001                                                                                                                                                                                                                                                                                                                                                                                                                                     | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                        | 11/13/2014                                                                                                                 | 9,021,575                                                                                                                                                                              | 4/28/2015                                                                                                                                                                                                                       | Iboss, Inc.                                                                                                                                                                                                                                                                                                                                                                                                            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| 38097-0008002                                                                                                                                                                                                                                                                                                                                                                                                                                     | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                        | 07/30/2015                                                                                                                 | 9,148,407                                                                                                                                                                              | 9/29/2015                                                                                                                                                                                                                       | Iboss, Inc.                                                                                                                                                                                                                                                                                                                                                                                                            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| 38097-0008003                                                                                                                                                                                                                                                                                                                                                                                                                                     | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                        | 12/31/2015                                                                                                                 | 9,294,450                                                                                                                                                                              | 3/22/2016                                                                                                                                                                                                                       | Iboss, Inc.                                                                                                                                                                                                                                                                                                                                                                                                            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| 38097-0008004                                                                                                                                                                                                                                                                                                                                                                                                                                     | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 38097-0008WO1                                                                                                                                                                                                                                                                                                                                                                                                                                     | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 38097-0010CA1                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 38097-0010DE1                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 38097-0010EP1                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 38097-0010EP2                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 38097-0010FR1                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 38097-0010GB1                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 38097-0010HK2                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 38097-0010001                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 38097-0010WO1                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 38097-0011001                                                                                                                                                                                                                                                                                                                                                                                                                                     | DESTINATION-SPECIFIC NETWORK MANAGEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 38097-0012CA1                                                                                                                                                                                                                                                                                                                                                                                                                                     | PROVIDING SINGLE SIGN-ON FOR WIRELESS DEVICES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 38097-0012DE1                                                                                                                                                                                                                                                                                                                                                                                                                                     | PROVIDING SINGLE SIGN-ON FOR WIRELESS DEVICES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 38097-0012EP1                                                                                                                                                                                                                                                                                                                                                                                                                                     | PROVIDING SINGLE SIGN-ON FOR WIRELESS DEVICES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 38097-0012FR1                                                                                                                                                                                                                                                                                                                                                                                                                                     | PROVIDING SINGLE SIGN-ON FOR WIRELESS DEVICES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 38097-0012GB1                                                                                                                                                                                                                                                                                                                                                                                                                                     | PROVIDING SINGLE SIGN-ON FOR WIRELESS DEVICES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 38097-0012001                                                                                                                                                                                                                                                                                                                                                                                                                                     | PROVIDING SINGLE SIGN-ON FOR WIRELESS DEVICES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 38097-0012002                                                                                                                                                                                                                                                                                                                                                                                                                                     | PROVIDING SINGLE SIGN-ON FOR WIRELESS DEVICES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 38097-0012WO1                                                                                                                                                                                                                                                                                                                                                                                                                                     | PROVIDING SINGLE SIGN-ON FOR WIRELESS DEVICES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 38097-0014001                                                                                                                                                                                                                                                                                                                                                                                                                                     | DEVICE-SPECIFIC AUTHENTICATION CREDENTIALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 38097-0014002                                                                                                                                                                                                                                                                                                                                                                                                                                     | DEVICE-SPECIFIC AUTHENTICATION CREDENTIALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 38097-0015CA1                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 38097-0015EP1                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 38097-0015001                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 38097-0015WO1                                                                                                                                                                                                                                                                                                                                                                                                                                     | CONTROLLING NETWORK ACCESS BASED ON APPLICATION DETECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 38097-0015W01                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 20031-00T0CVI                                                                                                                                                                                                                                                                                                                                                                                                                                     | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 38097-0016DE1                                                                                                                                                                                                                                                                                                                                                                                                                                     | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 38097-0016DE1<br>38097-0016EP1                                                                                                                                                                                                                                                                                                                                                                                                                    | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 38097-0016EP1                                                                                                                                                                                                                                                                                                                                                                                                                                     | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 38097-0016EP1<br>38097-0016FR1<br>38097-0016GB1                                                                                                                                                                                                                                                                                                                                                                                                   | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                        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| 38097-0016EP1<br>38097-0016FR1<br>38097-0016GB1<br>38097-0016001                                                                                                                                                                                                                                                                                                                                                                                  | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 38097-0016EP1<br>38097-0016FR1<br>38097-0016GB1<br>38097-0016001<br>38097-0016002                                                                                                                                                                                                                                                                                                                                                                 | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                                                                     | 3/27/2019<br>3/27/2019<br>3/27/2019                                                                                                                                                                                             | lboss, Inc.<br>lboss, Inc.<br>lboss, Inc.<br>iboss, Inc.                                                                                                                                                                                                                                                                                                                                                                          |
| 38097-0016FR1<br>38097-0016FR1<br>38097-0016GB1<br>38097-0016001<br>38097-0016002<br>38097-0016WO1                                                                                                                                                                                                                                                                                                                                                | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 38097-0016EP1<br>38097-0016FR1<br>38097-0016GB1<br>38097-0016001<br>38097-0016002                                                                                                                                                                                                                                                                                                                                                                 | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                                                                     | 3/27/2019<br>3/27/2019<br>3/27/2019<br>5/27/2014                                                                                                                                                                                | lboss, Inc.<br>lboss, Inc.<br>lboss, Inc.<br>iboss, Inc.                                                                                                                                                                                                                                                                                                                                                                          |
| 38097-0016FR1<br>38097-0016FR1<br>38097-0016GB1<br>38097-0016001<br>38097-0016002<br>38097-0016WO1                                                                                                                                                                                                                                                                                                                                                | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                | 3/27/2019<br>3/27/2019<br>3/27/2019<br>5/27/2014<br>7/2/2019                                                                                                                                                                    | lboss, Inc. lboss, Inc. lboss, Inc. iboss, Inc. iboss, Inc.                                                                                                                                                                                                                                                                                                                                                                       |
| 38097-0016EP1<br>38097-0016FR1<br>38097-0016GB1<br>38097-0016001<br>38097-0016002<br>38097-0016W01<br>38097-0017CA1<br>38097-0017EP1                                                                                                                                                                                                                                                                                                              | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                            | 3/27/2019<br>3/27/2019<br>3/27/2019<br>5/27/2014<br>7/2/2019<br>7/10/2018                                                                                                                                                       | Iboss, Inc.                                                                                                                                                                                                                                                                                                                                               |
| 38097-0016FP1<br>38097-0016FR1<br>38097-0016GB1<br>38097-0016001<br>38097-0016002<br>38097-0016W01<br>38097-0017CA1<br>38097-0017CA1<br>38097-0017CD1                                                                                                                                                                                                                                                                                             | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 14725865.1<br>14725865.1<br>14725865.1<br>137865,850<br>147265,540<br>PCT/US2014/034236<br>2912608<br>14809540.9<br>13/901,515                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                                                                                                                                                                                                                                                                                                                               | US-2014-0317397-A1<br>WO 2014/172384<br>3000218<br>US-2014-0351573-A1                                                                                                         | 10/23/2014<br>10/23/2014<br>03/30/2016<br>11/27/2014                                                                       | 2989769<br>2989769<br>2989769<br>8,739,243<br>10,341,357<br>2912608<br>9,160,718                                                                                                       | 3/27/2019<br>3/27/2019<br>3/27/2019<br>5/27/2014<br>7/2/2019<br>7/10/2018                                                                                                                                                       | lboss, Inc.                                                                                                                                                                                                                                                                                                           |
| 38097-0016FP1<br>38097-0016FB1<br>38097-0016GB1<br>38097-0016001<br>38097-0016002<br>38097-0017CA1<br>38097-0017CA1<br>38097-0017PP1<br>38097-0017D01<br>38097-0017D01                                                                                                                                                                                                                                                                            | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  SELECTIVE YERFORMING MAN IN THE MIDDLE DECRYPTION  SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 14725865.1<br>14725865.1<br>14725865.1<br>137865,850<br>14/265,540<br>PCT/US2014/034236<br>2912608<br>14809540.9<br>13/901,515<br>14/845,169                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                                                                                                                                                                                                                                                                               | US-2014-0317397-A1<br>WO 2014/172384<br>3000218<br>US-2014-0351573-A1<br>US-2015-0381583-A1                                                                                   | 10/23/2014<br>10/23/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015                                                         | 2989769<br>2989769<br>2989769<br>8,739,243<br>10,341,357<br>2912608<br>9,160,718<br>9,485,228                                                                                          | 3/27/2019<br>3/27/2019<br>3/27/2019<br>5/27/2014<br>7/2/2019<br>7/10/2018<br>10/13/2015<br>11/1/2016                                                                                                                            | lboss, Inc.                                                                                                                                                                                                                                                                                                           |
| 38097-0016FP1<br>38097-0016FR1<br>38097-00166B1<br>38097-0016001<br>38097-0016002<br>38097-0017001<br>38097-0017CA1<br>38097-0017CD1<br>38097-0017D01<br>38097-0017D02<br>38097-0017D02                                                                                                                                                                                                                                                           | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 14725865.1<br>14725865.1<br>14725865.1<br>13/865,850<br>14/265,540<br>PCT/US2014/034236<br>2912608<br>14809540.9<br>13/901,515<br>14/945,169<br>15/336,639                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                                                           | US-2014-0317397-A1<br>WO 2014/172384<br>3000218<br>US-2014-0351573-A1<br>US-2015-0381583-A1<br>US-2017-0048196-A1                                                             | 10/23/2014<br>10/23/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015<br>02/16/2017                                           | 2989769<br>2989769<br>2989769<br>8,739,243<br>10,341,357<br>2912608<br>9,160,718                                                                                                       | 3/27/2019<br>3/27/2019<br>3/27/2019<br>5/27/2014<br>7/2/2019<br>7/10/2018                                                                                                                                                       | lboss, Inc.                                                                                                                                         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| 38097-0016FP1<br>38097-0016FB1<br>38097-0016GB1<br>38097-0016001<br>38097-0016002<br>38097-0017CA1<br>38097-0017CA1<br>38097-0017PP1<br>38097-0017D01<br>38097-0017D01                                                                                                                                                                                                                                                                            | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  SELECTIVE YERFORMING MAN IN THE MIDDLE DECRYPTION  SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                                                                                                                                                                               | US-2014-0317397-A1<br>WO 2014/172384<br>3000218<br>US-2014-0351573-A1<br>US-2015-0381583-A1                                                                                   | 10/23/2014<br>10/23/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015                                                         | 2989769<br>2989769<br>2989769<br>8,739,243<br>10,341,357<br>2912608<br>9,160,718<br>9,485,228                                                                                          | 3/27/2019<br>3/27/2019<br>3/27/2019<br>5/27/2014<br>7/2/2019<br>7/10/2018<br>10/13/2015<br>11/1/2016                                                                                                                            | lboss, Inc.                                                                                                                                                                                                                                                                                                           |
| 38097-0016FP1<br>38097-0016FR1<br>38097-00166B1<br>38097-0016001<br>38097-0016002<br>38097-0017001<br>38097-0017CA1<br>38097-0017CD1<br>38097-0017D01<br>38097-0017D02<br>38097-0017D02                                                                                                                                                                                                                                                           | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 14725865.1<br>14725865.1<br>14725865.1<br>13/865,850<br>14/265,540<br>PCT/US2014/034236<br>2912608<br>14809540.9<br>13/901,515<br>14/945,169<br>15/336,639                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                                                           | US-2014-0317397-A1<br>WO 2014/172384<br>3000218<br>US-2014-0351573-A1<br>US-2015-0381583-A1<br>US-2017-0048196-A1                                                             | 10/23/2014<br>10/23/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015<br>02/16/2017                                           | 2989769<br>2989769<br>2989769<br>8,739,243<br>10,341,357<br>2912608<br>9,160,718<br>9,485,228                                                                                          | 3/27/2019<br>3/27/2019<br>3/27/2019<br>5/27/2014<br>7/2/2019<br>7/10/2018<br>10/13/2015<br>11/1/2016                                                                                                                            | lboss, Inc.                                                                                                                                         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| 38097-0016EP1 38097-0016FR1 38097-0016FR1 38097-0016001 38097-0016002 38097-0017001 38097-0017CA1 38097-0017P1 38097-0017P1 38097-0017002 38097-0017003 38097-0017003                                                                                                                                                                                                                                                                             | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 14725865.1<br>14725865.1<br>14725865.1<br>137865,850<br>14/265,540<br>PCT/US2014/034236<br>2912608<br>14809540.9<br>13/901,515<br>14/845,169<br>15/336,639<br>PCT/US2014/039231                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                      | US-2014-0317397-A1<br>WO 2014/172384<br>3000218<br>US-2014-0351573-A1<br>US-2015-0381583-A1<br>US-2017-0048196-A1                                                             | 10/23/2014<br>10/23/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015<br>02/16/2017                                           | 2989769<br>2989769<br>2989769<br>8,739,243<br>10,341,357<br>2912608<br>9,160,718<br>9,485,228<br>9,749,292                                                                             | 3/27/2019 3/27/2019 3/27/2019 5/27/2014 7/2/2019 7/10/2018 10/13/2015 11/1/2016 8/29/2017                                                                                                                                       | Iboss, Inc.                                                                                                                                                                                              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| 38097-0016FP1 38097-0016FR1 38097-0016FR1 38097-0016FB1 38097-0016FB1 38097-0016FD1 38097-0016FD2 38097-00116FD2 38097-0017CA1 38097-0017FP1 38097-0017FD1 38097-0017D02 38097-0017D02 38097-0017D02 38097-0017D02 38097-0017D02 38097-0017D02                                                                                                                                                                                                    | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  ALLOCATING A POOL OF SHARED BANDWIDTH  ALLOCATING A POOL OF SHARED BANDWIDTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14725865.1<br>14725865.1<br>14725865.1<br>14725865.1<br>147255.540<br>PCT/US2014/584236<br>2312668<br>1480550.0<br>13/901.515<br>14/845,169<br>15/336,639<br>PCT/US2014/593231<br>14/865,202<br>14/263,402                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | U5-2014-0917397-A1<br>W0 2014/172844<br>3000218<br>U5-2014-0951573-A1<br>U5-2015-0981583-A1<br>U5-2017-008195-A1<br>W0 2015/023336                                            | 10/23/2014<br>10/23/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015<br>02/16/2017<br>02/19/2015                             | 289769<br>289769<br>289769<br>8,739,243<br>10,341,357<br>2912608<br>9,160,718<br>9,456,728<br>9,749,292<br>8,750,239<br>8,971,282                                                      | 3/27/2019 3/27/2019 3/27/2019 3/27/2019 5/27/2014 7/2/2019 7/10/2018 10/13/2015 11/1/2016 8/29/2017 6/10/2014 3/3/2015                                                                                                          | boss, Inc.                                                                                                                                                                                               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| 38097-0016FP1 38097-0016FR1 38097-0016FR1 38097-0016FR1 38097-0016FR1 38097-0016FR1 38097-0016FR1 38097-0017001 38097-001701 38097-001701 38097-0017002 38097-0017002 38097-0017003 38097-0017003 38097-0017003                                                                                                                                                                                                                                   | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  ALLOCATING A POOL OF SHARED BANDWIDTH  ALLOCATING A POOL OF SHARED BANDWIDTH  ALLOCATING A POOL OF SHARED BANDWIDTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 14725865.1<br>14725865.1<br>14725855.1<br>14725855.1<br>147265,540<br>PCT/V52014/584236<br>24805540.9<br>13/901,515<br>14/945,169<br>15/336,639<br>PCT/V52014/039231<br>13/965,220<br>14/530,462                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                                                      | US-2014-0317397-A1<br>WO 2014/172384<br>3000218<br>US-2014-0351573-A1<br>US-2015-0381583-A1<br>US-2017-0048196-A1<br>WO 2015/023336                                           | 10/23/2014<br>10/23/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015<br>02/16/2017<br>02/19/2015                             | 289769<br>289769<br>289769<br>8,739,243<br>10,341,357<br>2912668<br>9,160,718<br>9,485,228<br>9,479,292<br>8,750,239<br>8,971,282<br>9,197,579                                         | 3/27/2019 3/27/2019 3/27/2019 3/27/2019 5/27/2014 7/2/2019 7/10/2018 10/13/2015 11/1/2016 8/29/2017 6/10/2014 3/3/2015 11/24/2015                                                                                               | Boss, Inc.                                                                                                                                                                                               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| 38097-0016FP1 38097-0016FP1 38097-0016FR1 38097-0016FR1 38097-0016FR1 38097-0016FR1 38097-0016FR1 38097-0017FP1 38097-0007FP1                                                                                                                                                           | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  SELECTIVE YERFORMING MAN IN THE MIDDLE DECRYPTION  SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  ALLOCATING A POOL OF SHARED BANDWIDTH  ALLOCATING A POOL OF SHARED BANDWIDTH  ALLOCATING A POOL OF SHARED BANDWIDTH  REFERRER-SPECIEN NETWORK MANAGEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14725865.1<br>14725865.1<br>14725865.1<br>14725865.1<br>147865.850<br>147265.540<br>2912608<br>2912608<br>2912608<br>1480550.0.9<br>13/901.515<br>14/845,169<br>15/336.53<br>13/865,220<br>14/853.402<br>14/853.402<br>14/850.42<br>13/906.265                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| U5-2014-0917397-41<br>WO 2014/172384<br>3000218<br>U5-2014-0951573-41<br>U5-2017-0048196-41<br>WO 2015/03336<br>U5-2014-0917255-41<br>U5-2015-0113147-41                      | 10/23/2014<br>10/23/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015<br>02/16/2017<br>02/19/2015                             | 2893769<br>2893769<br>2893769<br>2893769<br>8,739,243<br>10,341,357<br>2912608<br>9,150,718<br>9,485,228<br>9,749,232<br>8,750,239<br>8,971,282<br>9,197,579<br>8,732,828              | 3/27/2019 3/27/2019 3/27/2019 3/27/2014 7/2/2013 7/10/2018 10/13/2015 11/1/2016 8/29/2017 6/10/2014 3/3/2015 5/20/2014                                                                                                          | hoss, Inc. thoss, Inc.                                                                                                                                                                                    |
| 38097-0016FP1 38097-0016FR1 38097-0016FR1 38097-0016FR1 38097-0016FR1 38097-0016002 38097-0017001 38097-001701 38097-001701 38097-0017001 38097-0017002 38097-0017003 38097-0007002 38097-0007002                                                                                                                                                                                                                                                 | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  ALLOCATING A POOL OF SHARED BANDWIDTH  ALLOCATING A POOL OF SHARED BANDWIDTH  ALLOCATING A POOL OF SHARED BANDWIDTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 14725865.1<br>14725865.1<br>14725855.1<br>14725855.1<br>147265,540<br>PCT/V52014/584236<br>24805540.9<br>13/901,515<br>14/945,169<br>15/336,639<br>PCT/V52014/039231<br>13/965,220<br>14/530,462                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                                                      | U5-2014-0917397-A1<br>W0 2014/172844<br>3000218<br>U5-2014-0951573-A1<br>U5-2015-0981583-A1<br>U5-2017-008195-A1<br>W0 2015/023336                                            | 10/23/2014<br>10/23/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015<br>02/16/2017<br>02/19/2015                             | 289769<br>289769<br>289769<br>8,739,243<br>10,341,357<br>2912668<br>9,160,718<br>9,485,228<br>9,479,292<br>8,750,239<br>8,971,282<br>9,197,579                                         | 3/27/2019 3/27/2019 3/27/2019 3/27/2019 5/27/2014 7/2/2019 7/10/2018 10/13/2015 11/1/2016 8/29/2017 6/10/2014 3/3/2015 11/24/2015                                                                                               | Boss, Inc.                                                                                                                                                                                                       |
| 38097-0016EP1 38097-0016EP1 38097-0016EP1 38097-0016EP1 38097-0016EP1 38097-0016EP1 38097-0017EP1 38097-0017CA1 38097-0017D02 38097-0017D02 38097-0017D03 38097-0017D03 38097-0017D03 38097-0017D03 38097-0017D03 38097-0017D03 38097-0017D03 38097-0017D03 38097-0017D03 38097-0007D03 38097-0007D03                                                                                                                                             | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  SELECTIVE YERFORMING MAN IN THE MIDDLE DECRYPTION  SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  ALLOCATING A POOL OF SHARED BANDWIDTH  ALLOCATING A POOL OF SHARED BANDWIDTH  ALLOCATING A POOL OF SHARED BANDWIDTH  REFERRER-SPECIEN NETWORK MANAGEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14725865.1<br>14725865.1<br>14725865.1<br>14725865.1<br>147865.850<br>147265.540<br>2912608<br>2912608<br>2912608<br>1480550.0.9<br>13/901.515<br>14/845,169<br>15/336.53<br>13/865,220<br>14/850.442<br>13/906.265                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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4/15/2014<br>4/15/2014<br>4/15/2014<br>4/15/2014<br>4/15/2014<br>4/15/2014<br>4/15/2014<br>5/22/2014<br>5/22/2014<br>5/23/2013<br>9/3/2015<br>10/27/2016<br>5/22/2014<br>4/18/2013<br>4/18/2013<br>4/28/2014<br>12/23/2014<br>5/2014<br>5/2014<br>5/2014<br>5/2015<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/2016<br>5/ | U5-2014-0917397-41<br>WO 2014/172384<br>3000218<br>U5-2014-0951573-41<br>U5-2017-0048196-41<br>WO 2015/03336<br>U5-2014-0917255-41<br>U5-2015-0113147-41                      | 10/23/2014<br>10/23/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015<br>02/16/2017<br>02/19/2015                             | 2893769<br>2893769<br>2893769<br>2893769<br>8,739,243<br>10,341,357<br>2912608<br>9,150,718<br>9,485,228<br>9,749,232<br>8,750,239<br>8,971,282<br>9,197,579<br>8,732,828              | 3/27/2019 3/27/2019 3/27/2019 3/27/2014 7/2/2013 7/10/2018 10/13/2015 11/1/2016 8/29/2017 6/10/2014 3/3/2015 5/20/2014                                                                                                          | hoss, Inc. thoss, Inc.                                                                                                                                                                                    |
| 38097-0016RP1 38097-0016RP1 38097-0016RB1 38097-0016RB1 38097-0016001 38097-0016002 38097-0017001 38097-0017001 38097-0017002 38097-0017002 38097-0017002 38097-0017002 38097-0017002 38097-0017002 38097-0017003 38097-0017003                                                                                                                                                                                                                   | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  ALLOCATING A POOL OF SHARED BANDWIDTH  FERRERS-PECTOR ETWORK MANAGEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 14725865.1 14725865.1 14725865.1 14725865.1 137865.850 PCT/US2014/584236 1472565.400 PCT/US2014/584236 1480959.0.9 13/901.515 14/8455.169 PCT/US2014/598231 13/38.639 PCT/US2014/598231 14/263.402 14/263.402 14/580.622 13/959.613                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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U5-2014-0917397-41<br>WO 2014/172384<br>3000218<br>U5-2014-0951573-41<br>U5-2017-0048196-41<br>WO 2015/03336<br>U5-2014-0917255-41<br>U5-2015-0113147-41                      | 10/23/2014<br>10/23/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015<br>02/16/2017<br>02/19/2015                             | 2893769<br>2893769<br>2893769<br>2893769<br>8,739,243<br>10,341,357<br>2912608<br>9,150,718<br>9,485,228<br>9,749,232<br>8,750,239<br>8,971,282<br>9,197,579<br>8,732,828              | 3/27/2019 3/27/2019 3/27/2019 3/27/2014 7/2/2013 7/10/2018 10/13/2015 11/1/2016 8/29/2017 6/10/2014 3/3/2015 5/20/2014                                                                                                          | Boss, Inc.                                                                              |
| 38097-0016EP1 38097-0016EP1 38097-0016EP1 38097-0016EP1 38097-0016EP1 38097-0016EP1 38097-00176D1 38097-0017CA1 | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  ALLOCATING A POOL OF SHARED BANDWIDTH  ALLOCATING A POOL OF SHARED BANDWIDTH  ALLOCATING A POOL OF SHARED BANDWIDTH  REFERRER-SPECIFIC NETWORK MANAGEMENT  CONTENT CACHING  OUT OF BAND PROCEST ANALYSIS OPTIMIZATION  SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 14725865.1<br>14725865.1<br>14725865.1<br>14725865.1<br>1472585.1<br>137865,850<br>147265,540<br>2912608<br>2912608<br>1480550.0;9<br>137901,515<br>147845,169<br>157336,59<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,513<br>137906,265<br>137906,265<br>137906,251<br>1292129                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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2014/172384<br>3000218<br>U5-2014-0351573-A1<br>U5-2015-0351583-A1<br>U5-2017-048196-A1<br>WO 2015/03336<br>U5-2014-0317295-A1<br>U5-2015-0133147-A1 | 10/23/2014<br>10/23/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015<br>02/16/2017<br>02/19/2015                             | 2893769<br>2893769<br>2893769<br>2893769<br>8,739,243<br>10,341,357<br>2912608<br>9,150,718<br>9,485,228<br>9,749,232<br>8,750,239<br>8,971,282<br>9,175,739<br>8,732,828<br>8,972,513 | 3/7/2019 3/7/2019 3/7/2019 3/7/2019 5/7/2014 7/7/2019 7/10/2018 10/13/2015 11/1/2016 8/7/3/2017 6/10/2014 3/3/2015 11/1/2016 11/1/2016 11/1/2016 11/1/2016 11/1/2016 11/1/2016 11/1/2016 11/1/2016 11/1/2016 11/1/2016          | hoss, Inc. thoss, Inc.                                                                                                                                    |
| 38097-00168P1 38097-00168P1 38097-00168B1 38097-00168B1 38097-0016001 38097-0016002 38097-00176A1 38097-0017P1 38097-0017P01                                                                                      | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  ALLOCATING A POOL OF SHARED BANDWIDTH  CONTENT CACHING  OUT OF BAND PACKET MANAYSS OPTIMIZATION  SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                                         | 14725865.1 14725865.1 14725865.1 14725865.1 137865.850 147255.540 PCT/US2014/034236 2212268 14809540.9 13/906.251 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 14/845,169 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4/15/2014<br>4/15/2014<br>4/15/2014<br>4/15/2014<br>4/18/2013<br>4/30/2014<br>4/30/2014<br>5/22/2014<br>5/22/2014<br>5/22/2014<br>4/15/2013<br>4/15/2013<br>4/15/2014<br>1/22/2014<br>4/15/2013<br>8/5/2014<br>1/22/2014<br>4/15/2013<br>8/5/2014<br>1/22/2014<br>4/15/2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | U5-2014-0317397-A1<br>WO 2014/172384<br>3000218<br>U5-2014-0951577-A1<br>U5-2017-0048196-A1<br>WO 2015/023336<br>U5-2014-031729-A1<br>U5-2015-0339713-A1                      | 10/23/2014<br>10/73/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015<br>02/16/2017<br>02/19/2015<br>10/23/2014<br>04/23/2015 | 289769 2893769 2893769 289769 8,739,243 10,341,357 2912608 9,169,718 9,485,228 9,749,292 8,750,239 8,971,282 9,175,759 8,725,133 2921123 6,02014E+11                                   | 3/27/2019 3/27/2019 3/27/2019 3/27/2019 5/27/2014 7/2/2019 7/10/2018 10/13/2015 11/1/2016 8/29/2017 6/10/2014 3/3/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015                                                                  | hoss, inc.                                                                   |
| 38097-0016FP1 38097-0016FR1 38097-0016FR1 38097-0016FB1 38097-0016FB1 38097-0016002 38097-0016002 38097-0017001 38097-0017001 38097-0017001 38097-0017002 38097-0017002 38097-0017003 38097-0017003 38097-00170001 38097-0001                                                                                                                                                                                                                     | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  ALLOCATING A POOL OF SHARED BANDWIDTH  CONTENT CACHING  OUT OF BAND PACKET ANALYSIS OPTIMIZATION  SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION | 14725865.1 14725865.1 14725865.1 14725865.1 137865,850 147265,540 PCT/US2014/034236 2312668 14899540.9 137901,515 14/485,169 15/336,639 PCT/US2014/039231 13/901,521 14/930,462 13/906,265 13/906,265 13/906,261 13/906,265 13/906,261                                                                           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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | U5-2014-0317397-A1<br>WO 2014/172384<br>3000218<br>U5-2014-0351573-A1<br>U5-2015-0351583-A1<br>U5-2017-048196-A1<br>WO 2015/03336<br>U5-2014-0317295-A1<br>U5-2015-0133147-A1 | 10/23/2014<br>10/23/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015<br>02/16/2017<br>02/19/2015                             | 289769 289769 289769 289769 8,739,243 10,341,357 2912698 9,160,718 9,160,718 9,149,292 8,750,239 8,971,282 9,197,579 8,732,828 8,972,513 2921129 6,000144-11 3033688                   | 3/7/2019 3/7/2019 3/7/2019 3/7/2019 5/7/2014 7/7/2019 7/10/2018 10/13/2015 11/1/2016 6/10/2014 3/3/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 | Boss, Inc. |
| 38097-0016EP1 38097-0016EP1 38097-0016EP1 38097-0016EP1 38097-0016EP1 38097-0016EP1 38097-00176D1 38097-0017CA1                                                         | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  ALLOCATING A POOL OF SHARED BANDWIDTH  ALLOCATING AP OOL OF SHARED BANDWIDTH  ALLOCATING AP OOL OF SHARED BANDWIDTH  REFERRER-SECIPIC NETWORK MANAGEMENT  CONTENT CACHING  DUT OF BAND PROCKET ANALYSIS OPTIMIZATION  SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                           | 14725865.1<br>14725865.1<br>14725865.1<br>14725865.1<br>137865,850<br>147265,540<br>2912608<br>2912608<br>2912608<br>1480550.0;9<br>137901,515<br>147845,169<br>157336,59<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>147 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| U5-2014-0317397-A1<br>WO 2014/172384<br>3000218<br>U5-2014-0951577-A1<br>U5-2017-0048196-A1<br>WO 2015/023336<br>U5-2014-031729-A1<br>U5-2015-0339713-A1                      | 10/23/2014<br>10/73/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015<br>02/16/2017<br>02/19/2015<br>10/23/2014<br>04/23/2015 | 2893769 2893769 2893769 2893769 8,739,243 10,341,357 2912608 9,150,718 9,485,228 9,749,232 8,750,239 8,971,282 9,197,573 8,732,828 8,972,513 2921129 6,000148+111 3003688              | 3/27/2019 3/27/2019 3/27/2019 3/27/2019 5/27/2014 7/2/2019 7/10/2018 10/13/2015 11/1/2016 8/29/2017 6/10/2014 3/3/2015 11/1/2016 11/1/2016 11/1/2016 11/1/2016 11/1/2016 10/1/2020 10/1/2020                                    | hoss, inc.                                                                   |
| 38097-0016FP1 38097-0016FR1 38097-0016FR1 38097-0016FB1 38097-0016FB1 38097-0016002 38097-0016002 38097-0017001 38097-0017001 38097-0017001 38097-0017002 38097-0017002 38097-0017003 38097-0017003 38097-00170001 38097-0001                                                                                                                                                                                                                     | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  ALLOCATING A POOL OF SHARED BANDWIDTH  CONTENT CACHING  OUT OF BAND PACKET ANALYSIS OPTIMIZATION  SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION | 14725865.1 14725865.1 14725865.1 14725865.1 137865,850 147265,540 PCT/US2014/034236 2312668 14899540.9 137901,515 14/485,169 15/336,639 PCT/US2014/039231 13/901,521 14/930,462 13/906,265 13/906,265 13/906,261 13/906,265 13/906,261                                                                           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4/15/2014<br>4/15/2014<br>4/15/2014<br>4/15/2014<br>4/15/2014<br>4/15/2014<br>4/15/2014<br>5/22/2014<br>5/22/2014<br>5/22/2015<br>10/27/2016<br>5/22/2014<br>4/15/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/2014<br>12/25/25/25/25/25/25/25/25/25/25/25/25/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | U5-2014-0317397-A1<br>WO 2014/172384<br>3000218<br>U5-2014-0951577-A1<br>U5-2017-0048196-A1<br>WO 2015/023336<br>U5-2014-031729-A1<br>U5-2015-0339713-A1                      | 10/23/2014<br>10/23/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015<br>02/16/2017<br>02/19/2015<br>10/23/2014<br>04/23/2015 | 289769 289769 289769 289769 8,739,243 10,341,357 2912698 9,160,718 9,160,718 9,149,292 8,750,239 8,971,282 9,197,579 8,732,828 8,972,513 2921129 6,000144-11 3033688                   | 3/7/2019 3/7/2019 3/7/2019 3/7/2019 5/7/2014 7/7/2019 7/10/2018 10/13/2015 11/1/2016 6/10/2014 3/3/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 11/2/2015 | Boss, Inc. |
| 38097-0016EP1 38097-0016EP1 38097-0016EP1 38097-0016EP1 38097-0016EP1 38097-0016EP1 38097-00176D1 38097-0017CA1                                                         | SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  ALLOCATING A POOL OF SHARED BANDWIDTH  ALLOCATING AP OOL OF SHARED BANDWIDTH  ALLOCATING AP OOL OF SHARED BANDWIDTH  REFERRER-SECIPIC NETWORK MANAGEMENT  CONTENT CACHING  DUT OF BAND PROCKET ANALYSIS OPTIMIZATION  SELECTIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION                           | 14725865.1<br>14725865.1<br>14725865.1<br>14725865.1<br>137865,850<br>147265,540<br>2912608<br>2912608<br>2912608<br>1480550.0;9<br>137901,515<br>147845,169<br>157336,59<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>14785,3402<br>147 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| U5-2014-0317397-A1<br>WO 2014/172384<br>3000218<br>U5-2014-0951577-A1<br>U5-2017-0048196-A1<br>WO 2015/023336<br>U5-2014-031729-A1<br>U5-2015-0339713-A1                      | 10/23/2014<br>10/23/2014<br>03/30/2016<br>11/27/2014<br>12/31/2015<br>02/16/2017<br>02/19/2015<br>10/23/2014<br>04/23/2015 | 2893769 2893769 2893769 2893769 8,739,243 10,341,357 2912608 9,150,718 9,485,228 9,749,232 8,750,239 8,971,282 9,197,573 8,732,828 8,972,513 2921129 6,000148+111 3003688              | 3/27/2019 3/27/2019 3/27/2019 3/27/2019 5/27/2014 7/2/2019 7/10/2018 10/13/2015 11/1/2016 8/29/2017 6/10/2014 3/3/2015 11/1/2016 11/1/2016 11/1/2016 11/1/2016 11/1/2016 10/1/2020 10/1/2020                                    | hoss, Inc. thoss, Inc.                        |

| S097-0021W01   SELCTIVE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TIVELY PERFORMING MAN IN THE MIDDLE DECRYPTION  THOSE PERFORMING WAS A POLICIES  THOSE PERFORMING WAS A POLICIES  THE AUTHENTICATION USING PROXY AUTOMATIC CONFIGURATION SCRIPT REQUESTS  THE AUTHENTICATION USING PROXY AUTOMATIC CONFIGURATION SCRIPT REQUESTS  THE AUTHENTICATION USING PROXY AUTOMATIC CONFIGURATION SCRIPT REQUESTS  THE AUTHENTICATION USING DEVICE-SPECIFIC PROXY ADDRESSES  THOSE PROVIDING PROXY USER AUTHENTICATION VIA THE USE OF UNIQUE PROXY IP/PORT COMBINATIONS PER DEVICE  THOSE PROFILE CHANGES BASED ON DEVICE BEHAVIOR  BAUARCING RETWORK ADAPTER | 14/845,152<br>PCT/US2014/051154<br>13/944,585<br>14/267,315<br>14/708,113<br>13/951,359<br>14/810,356<br>14/061,591 | 9/3/2015<br>8/14/2014<br>7/17/2013<br>5/1/2014<br>5/8/2015<br>7/25/2013 | US-2015-0381570-A1<br>WO 2015/023900<br>US-2015-0026240-A1<br>US-2015-0244822-A1<br>US-2015-0033298-A1 | 12/31/2015<br>11/19/2015<br>01/22/2015<br>08/27/2015 | 9,853,943<br>8,738,791<br>9,049,231<br>9,225,790 | 12/26/2017<br>5/27/2014<br>6/2/2015<br>12/29/2015 | iboss, inc. Iboss, inc. Iboss, inc. Iboss, inc. Iboss, inc. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------|
| S007-0022001   LOCATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TION BASED NETWORK USAGE POLICIES  TION BASED NETWORK USAGE POLICIES  TON BASED NETWORK USAGE POLICIES  E AUTHENTICATION USING PROXY AUTOMATIC CONFIGURATION SCRIPT REQUESTS  E AUTHENTICATION USING PROXY AUTOMATIC CONFIGURATION SCRIPT REQUESTS  E AUTHENTICATION USING DEVICE-SPECIFIC PROXY ADDRESSES  TOO FOR PROVIDING PROXY USER AUTHENTICATION VIA THE USE OF UNIQUE PROXY IP/PORT COMBINATIONS PER DEVICE  TING PROPRIE CHANGES BASED ON DEVICE BEHAVIOR                                                                                                                                                                                                                                                                                                               | 13/944,585<br>14/267,315<br>14/708,113<br>13/951,359<br>14/810,356                                                  | 7/17/2013<br>5/1/2014<br>5/8/2015                                       | US-2015-0026240-A1<br>US-2015-0244822-A1                                                               | 01/22/2015<br>08/27/2015                             | 9,049,231                                        | 6/2/2015                                          | lboss, Inc.<br>Iboss, Inc.                                  |
| S097-0022002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TION BASED NETWORK USAGE POLICIES  TON BASED NETWORK USAGE POLICIES  E AUTHENTECTION USING PROXY AUTOMATIC CONFIGURATION SCRIPT REQUESTS  E AUTHENTICATION USING PROXY AUTOMATIC CONFIGURATION SCRIPT REQUESTS  E AUTHENTICATION USING PROXY SECRETIC PROXY ADDRESSES  BOOD FOR PROVINGER AUTOMATIC SCRIPT REQUESTS  E AUTHENTICATION USING DEVICE-SPECIFIC PROXY ADDRESSES  DO FOR PROVINGER POXY USER AUTHENTICATION VIA THE USE OF UNIQUE PROXY IP/PORT COMBINATIONS PER DEVICE  CTING PROFILE CHANGES BASED ON DEVICE BEHAVIOR                                                                                                                                                                                                                                               | 14/267,315<br>14/708,113<br>13/951,359<br>14/810,356                                                                | 5/1/2014<br>5/8/2015                                                    | US-2015-0244822-A1                                                                                     | 08/27/2015                                           | 9,049,231                                        | 6/2/2015                                          | Iboss, Inc.                                                 |
| S097-0022003   LOCATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TION BASED NETWORK USAGE POLICIES  E AUTHENTICATION USING PROXY AUTOMATIC CONFIGURATION SCRIPT REQUESTS  E AUTHENTICATION USING PROXY AUTOMATIC CONFIGURATION SCRIPT REQUESTS  E AUTHENTICATION USING DEVICE-SPECIFIC PROXY ADDRESSES  OD FOR PROVIDING PROXY USER AUTHENTICATION VIA THE USE OF UNIQUE PROXY IP/PORT COMBINATIONS PER DEVICE  TING PROFILE CHANGES BASED ON DEVICE BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                     | 14/708,113<br>13/951,359<br>14/810,356                                                                              | 5/8/2015                                                                | US-2015-0244822-A1                                                                                     | 08/27/2015                                           |                                                  |                                                   |                                                             |
| S097-0022003   LOCATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TION BASED NETWORK USAGE POLICIES  E AUTHENTICATION USING PROXY AUTOMATIC CONFIGURATION SCRIPT REQUESTS  E AUTHENTICATION USING PROXY AUTOMATIC CONFIGURATION SCRIPT REQUESTS  E AUTHENTICATION USING DEVICE-SPECIFIC PROXY ADDRESSES  OD FOR PROVIDING PROXY USER AUTHENTICATION VIA THE USE OF UNIQUE PROXY IP/PORT COMBINATIONS PER DEVICE  TING PROFILE CHANGES BASED ON DEVICE BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                     | 14/708,113<br>13/951,359<br>14/810,356                                                                              | 5/8/2015                                                                |                                                                                                        |                                                      |                                                  | 12/29/2015                                        | lhoss, Inc                                                  |
| S097-0023001   DEVICE AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | E AUTHENTICATION USING PROXY AUTOMATIC CONFIGURATION SCRIPT REQUESTS  E AUTHENTICATION USING PROXY AUTOMATIC CONFIGURATION SCRIPT REQUESTS  E AUTHENTICATION USING DEVICE-SPECIFIC PROXY ADDRESSES  OD FOR PROVIDING PROXY USER AUTHENTICATION VIA THE USE OF UNIQUE PROXY IP/PORT COMBINATIONS PER DEVICE  TING PROPRIE CHANGES BASED ON DEVICE BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                        | 13/951,359<br>14/810,356                                                                                            |                                                                         |                                                                                                        |                                                      |                                                  |                                                   |                                                             |
| S097-0023002   DEVICE AL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | E AUTHENTICATION USING PROXY AUTOMATIC CONPIGURATION SCRIPT REQUESTS  E AUTHENTICATION USING DEVICE-SPECIFIC PROXY ADDRESSES  DO FOR PROVIDER FOR POOTY USIR AUTHENTICATION VIA THE USE OF UNIQUE PROXY IP/PORT COMBINATIONS PER DEVICE  TING PROPRIE CHANGES BASED ON DEVICE BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14/810,356                                                                                                          | 172372015                                                               |                                                                                                        | 01/29/2015                                           | 9.092.613                                        | 7/28/2015                                         | Iboss, Inc.                                                 |
| S097-0024001   DEVICE AL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | E AUTHENTICATION USING DEVICE-SPECIFIC PROXY ADDRESSES  OD FOR PROVIDING PROXY USER AUTHENTICATION VIA THE USE OF UNIQUE PROXY IP/PORT COMBINATIONS PER DEVICE TITING PROFILE CHANGES BASED ON DEVICE BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                     | 7/27/2015                                                               | US-2015-0334103-A1                                                                                     | 11/19/2015                                           | 9,544,290                                        | 1/10/2017                                         | Iboss, Inc.                                                 |
| S8097-0025001   METHOD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | IOD FOR PROVIDING PROXY USER AUTHENTICATION VIA THE USE OF UNIQUE PROXY IP/PORT COMBINATIONS PER DEVICE<br>TING PROFILE CHANGES BASED ON DEVICE BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                     | 10/23/2013                                                              | 03-2013-033-103-71                                                                                     | 11/13/2013                                           | 8,893,255                                        | 11/18/2014                                        | Iboss, Inc.                                                 |
| S097-002501   DETECTIN   S097-0025001   DATECTIN   S097-0027001   LOAD EAL   S097-0027001   DETERMINE   S097-0025001   CONTENT   S0997-0025002   CONTENT   S0997-0035002   MOBILE D   S0997-0035002   MOBILE D   S0997-0035001   USER DEV   S0997-0035002   SWITCHIN   S0997-0035002   SWITCHIN   S0997-0035002   SWITCHIN   S0997-0035001   MARAGE   S0997-0035001   MARAGE   S0997-00364EP1   MARAGE   S0997-0036EP1   MARAGE   S | CTING PROFILE CHANGES BASED ON DEVICE BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <u> </u>                                                                                                            | 10/23/2013                                                              |                                                                                                        |                                                      | 0,033,233                                        | 11/10/2014                                        | 10033, 1114.                                                |
| \$8097-0027001 LOAD EAL \$8097-0027001 DETERMIN \$8097-0028001 DETERMIN \$8097-0028001 CONTENT \$8097-0030001 MOBILE D \$8097-0030001 MOBILE D \$8097-0030001 USER DEV \$8097-0033001 SWITCHIN \$8097-0033001 SWITCHIN \$8097-0033001 MANAGE \$8097-0034011 MANAGE \$8097-0034011 MANAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 42/050 500                                                                                                          | 8/5/2013                                                                |                                                                                                        |                                                      | 8,645,535                                        | 2/4/2004                                          |                                                             |
| 8097-0028001   DETERMIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BALANCING NETWORK ADAPTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13/959,609                                                                                                          |                                                                         |                                                                                                        |                                                      |                                                  | 2/4/2014                                          | Iboss, Inc.                                                 |
| S097-0025001   CONTENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 13/951,392                                                                                                          | 7/25/2013                                                               | US-2015-0029850-A1                                                                                     | 01/29/2015                                           | 8,976,666                                        | 3/10/2015                                         | Iboss, Inc.                                                 |
| 18097-0025002   CONTENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RMINING DEVICE LOCATION BASED ON DOMAIN NAME RESPONSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 14/184,592                                                                                                          | 2/19/2014                                                               |                                                                                                        |                                                      | 8,990,425                                        | 3/24/2015                                         | Iboss, Inc.                                                 |
| 38097-0030001   MOBILE D<br>  38097-0030002   MOBILE D<br>  38097-0033001   USER DEV<br>  38097-0033001   SWITCHIN<br>  38097-0033002   SWITCHIN<br>  38097-0033002   MANAGE<br>  38097-0034DE1   MANAGE<br>  38097-0034DE1   MANAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ENT CACHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 13/959,561                                                                                                          | 8/5/2013                                                                |                                                                                                        |                                                      | 8,788,703                                        | 7/22/2014                                         | Iboss, Inc.                                                 |
| \$8097-0030002 MOBILE D \$8097-0031001 USER DEV \$8097-0033001 SWITCHIN \$8097-0033002 SWITCHIN \$8097-00340c1 MANAGE \$8097-0034DE1 MANAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ENT CACHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14/265,997                                                                                                          | 4/30/2014                                                               |                                                                                                        |                                                      | 8,914,542                                        | 12/16/2014                                        | iboss, Inc.                                                 |
| 38097-0031001         USER DEV           38097-0033001         SWITCHIN           38097-0033002         SWITCHIN           38097-0034CA1         MANAGE           38097-0034DE1         MANAGE           38097-0034EP1         MANAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LE DEVICE MANAGEMENT PROFILE DISTRIBUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 14/029,639                                                                                                          | 9/17/2013                                                               |                                                                                                        |                                                      | 8,910,263                                        | 12/9/2014                                         | Iboss, Inc.                                                 |
| 38097-0033001 SWITCHIN<br>38097-0033002 SWITCHIN<br>38097-0034CA1 MANAGE<br>38097-0034DE1 MANAGE<br>38097-0034EP1 MANAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LE DEVICE MANAGEMENT PROFILE DISTRIBUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 14/563,767                                                                                                          | 12/8/2014                                                               | US-2015-0096005-A1                                                                                     | 04/02/2015                                           | 9,160,751                                        | 10/13/2015                                        | Iboss, Inc.                                                 |
| 38097-0033002 SWITCHIN<br>38097-0034CA1 MANAGE<br>38097-0034DE1 MANAGE<br>38097-0034EP1 MANAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DEVICE RECYCLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 13/962,785                                                                                                          | 8/8/2013                                                                | US-2015-0046343-A1                                                                                     | 02/12/2015                                           |                                                  |                                                   | Iboss, Inc.                                                 |
| 38097-0034CA1 MANAGE<br>38097-0034DE1 MANAGE<br>38097-0034EP1 MANAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CHING BETWEEN NETWORKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 13/962,832                                                                                                          | 8/8/2013                                                                | US-2015-0046588-A1                                                                                     | 02/12/2015                                           | 9,380,077                                        | 6/28/2016                                         | Iboss, Inc.                                                 |
| 38097-0034DE1 MANAGE<br>38097-0034EP1 MANAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CHING BETWEEN NETWORKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 15/192,891                                                                                                          | 6/24/2016                                                               | US-2016-0308850-A1                                                                                     | 10/20/2016                                           | 10,200,354                                       | 2/5/2019                                          | lboss, Inc.                                                 |
| 38097-0034EP1 MANAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AGE ENCRYPTED NETWORK TRAFFIC USING SPOOFED ADDRESSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,931,230                                                                                                           | 11/20/2014                                                              |                                                                                                        |                                                      | 2,931,230                                        | 2/7/2017                                          | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AGE ENCRYPTED NETWORK TRAFFIC USING SPOOFED ADDRESSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 14815997.3                                                                                                          | 11/20/2014                                                              | 3072278                                                                                                |                                                      | 6.02014E+11                                      | 8/28/2019                                         | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AGE ENCRYPTED NETWORK TRAFFIC USING SPOOFED ADDRESSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 14815997.3                                                                                                          | 11/20/2014                                                              | 3072278                                                                                                | 09/28/2016                                           | 3072278                                          | 8/28/2019                                         | Iboss, Inc.                                                 |
| 38097-0034FR1 MANAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AGE ENCRYPTED NETWORK TRAFFIC USING SPOOFED ADDRESSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 14815997.3                                                                                                          | 11/20/2014                                                              |                                                                                                        |                                                      | 3072278                                          | 8/28/2019                                         | Iboss, Inc.                                                 |
| 38097-0034GB1 MANAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AGE ENCRYPTED NETWORK TRAFFIC USING SPOOFED ADDRESSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 14815997.3                                                                                                          | 11/20/2014                                                              |                                                                                                        |                                                      | 3072278                                          | 8/28/2019                                         | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AGE ENCRYPTED NETWORK TRAFFIC USING SPOOFED ADDRESSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 14/085,661                                                                                                          | 11/20/2013                                                              | US-2015-0143110-A1                                                                                     | 05/21/2015                                           | 9,386,038                                        | 7/5/2016                                          | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AGE ENCRYPTED NETWORK TRAFFIC USING SPOOFED ADDRESSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15/201,260                                                                                                          | 7/1/2016                                                                | US-2016-0315919-A1                                                                                     | 10/27/2016                                           | 9,699,151                                        | 7/4/2017                                          | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AGE ENCRYPTED NETWORK TRAFFIC USING SPOOFED ADDRESSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15/618,049                                                                                                          | 6/8/2017                                                                | US-2017-0279782-A1                                                                                     | 09/28/2017                                           | ,,                                               | .,-,                                              | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AGE ENCRYPTED NETWORK TRAFFIC USING SPOOFED ADDRESSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PCT/US2014/066688                                                                                                   | 11/20/2014                                                              | WO 2015/077492                                                                                         | 05/28/2017                                           |                                                  | <del></del>                                       | lboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RATING PROXY AUTOMATIC CONFIGURATION SCRIPTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 14/257.912                                                                                                          | 4/21/2014                                                               | US-2015/07/492<br>US-2015-0301982-A1                                                                   | 10/22/2015                                           | 9,201,840                                        | 12/1/2015                                         | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                     |                                                                         |                                                                                                        |                                                      |                                                  |                                                   |                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RATING PROXY AUTOMATIC CONFIGURATION SCRIPTS  THEN SENDING DELICE TRACKIC THROUGH ON PREMISE CATEMAYS OF CLOUD SYSTEMS PASED ON DELICE LOCATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 14/944,808                                                                                                          | 11/18/2015                                                              | US-2016-0072673-A1                                                                                     | 03/10/2016                                           | 9,544,189                                        | 1/10/2017                                         | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TIVELY SENDING DEVICE TRAFFIC THROUGH ON-PREMISE GATEWAYS OR CLOUD SYSTEMS BASED ON DEVICE LOCATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                     |                                                                         |                                                                                                        |                                                      |                                                  |                                                   |                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | INATING MOBILE DEVICE SESSIONS BASED ON USER ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                     |                                                                         |                                                                                                        |                                                      | L                                                |                                                   | ļ., .                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CTING AND MANAGING ABNORMAL DATA BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2940874                                                                                                             | 2/26/2015                                                               |                                                                                                        |                                                      | 2940874                                          | 1/29/2019                                         | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CTING AND MANAGING ABNORMAL DATA BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 15710646.9                                                                                                          | 2/26/2015                                                               | 3111616                                                                                                |                                                      | 6.02015E+11                                      | 2/12/2020                                         | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CTING AND MANAGING ABNORMAL DATA BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 15710646.9                                                                                                          | 2/26/2015                                                               | 3111616                                                                                                | 01/04/2017                                           | 3111616                                          | 2/12/2020                                         | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CTING AND MANAGING ABNORMAL DATA BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 15710646.9                                                                                                          | 2/26/2015                                                               |                                                                                                        |                                                      | 3111616                                          | 2/12/2020                                         | Iboss, Inc.                                                 |
| 38097-0038GB1 DETECTIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CTING AND MANAGING ABNORMAL DATA BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 15710646.9                                                                                                          | 2/26/2015                                                               |                                                                                                        |                                                      | 3111616                                          | 2/12/2020                                         | Iboss, Inc.                                                 |
| 38097-0038001 DETECTIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TING AND MANAGING ABNORMAL DATA BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 14/191,346                                                                                                          | 2/26/2014                                                               | US-2015-0242415-A1                                                                                     | 08/27/2015                                           | 9,195,669                                        | 11/24/2015                                        | lboss, Inc.                                                 |
| 38097-0038002 DETECTIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CTING AND MANAGING ABNORMAL DATA BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 14/944,057                                                                                                          | 11/17/2015                                                              | US-2016-0072848-A1                                                                                     | 03/10/2016                                           | 9,794,291                                        | 10/17/2017                                        | Iboss, Inc.                                                 |
| 38097-0038003 DETECTIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TING AND MANAGING ABNORMAL DATA BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 15/726,250                                                                                                          | 10/5/2017                                                               | US-2018-0048676-A1                                                                                     | 02/15/2018                                           | 10,057,296                                       | 8/21/2018                                         | Iboss, Inc.                                                 |
| 38097-0038W01 DETECTIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TING AND MANAGING ABNORMAL DATA BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PCT/US2015/017735                                                                                                   | 2/26/2015                                                               | WO 2015/130921                                                                                         | 09/03/2015                                           |                                                  |                                                   | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ING POLICIES TO SUBNETS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 14/199,616                                                                                                          | 3/6/2014                                                                |                                                                                                        |                                                      | 8,984,149                                        | 3/17/2015                                         | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ING POLICIES TO SUBNETS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 14/659,357                                                                                                          | 3/16/2015                                                               | US-2015-0256416-A1                                                                                     | 09/10/2015                                           | 9,288,119                                        | 3/15/2016                                         | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ING POLICIES TO SUBNETS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15/019,727                                                                                                          | 2/9/2016                                                                | US-2016-0164737-A1                                                                                     | 06/09/2016                                           | 9,461,889                                        | 10/4/2016                                         | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ING POLICIES TO SUBNETS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15/284.084                                                                                                          | 10/3/2016                                                               | US-2017-0041193-A1                                                                                     | 02/09/2017                                           | 9.813.298                                        | 11/7/2017                                         | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PORK NOTIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2943559                                                                                                             | 3/25/2015                                                               | 03-2017-0041153-R1                                                                                     | 02/05/2017                                           | 2943559                                          | 12/19/2017                                        | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                     |                                                                         | 3123695                                                                                                |                                                      |                                                  |                                                   |                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ORK NOTIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15768345.9                                                                                                          | 3/25/2015                                                               |                                                                                                        |                                                      | 6.02015E+11                                      | 12/25/2019                                        | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PORK NOTIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15768345.9                                                                                                          | 3/25/2015                                                               | 3123695                                                                                                | 02/01/2017                                           | 3123695                                          | 12/25/2019                                        | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ORK NOTIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15768345.9                                                                                                          | 3/25/2015                                                               |                                                                                                        |                                                      | 3123695                                          | 12/25/2019                                        | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ORK NOTIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15768345.9                                                                                                          | 3/25/2015                                                               |                                                                                                        |                                                      | 3123695                                          | 12/25/2019                                        | Iboss, Inc.                                                 |
| 38097-0040001 NETWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ORK NOTIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 14/226,582                                                                                                          | 3/26/2014                                                               | US-2015-0281275-A1                                                                                     | 10/01/2015                                           | 9,130,996                                        | 9/8/2015                                          | Iboss, Inc.                                                 |
| 38097-0040002 NETWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ORK NOTIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 14/813,919                                                                                                          | 7/30/2015                                                               | US-2015-0341228-A1                                                                                     | 11/26/2015                                           | 9,537,721                                        | 1/3/2017                                          | Iboss, Inc.                                                 |
| 38097-0040WO1 NETWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | /ORK NOTIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PCT/US2015/022549                                                                                                   | 3/25/2015                                                               | WO 2015/148709                                                                                         | 10/01/2015                                           |                                                  |                                                   | Iboss, Inc.                                                 |
| 38097-0041001 MAINTAIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TAINING IP TABLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 14/280,440                                                                                                          | 5/16/2014                                                               | US-2015-0334116-A1                                                                                     | 11/19/2015                                           | 9,497,063                                        | 11/15/2016                                        | iboss, Inc.                                                 |
| 38097-0042001 MAINTAIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TAINING IP TABLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 14/280,488                                                                                                          | 5/16/2014                                                               |                                                                                                        |                                                      | 8,977,728                                        | 3/10/2015                                         | iboss. Inc                                                  |
| 38097-0042002 MAINTAIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TAINING IP TABLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 14/642,616                                                                                                          | 3/9/2015                                                                | US-2015-0333980-A1                                                                                     | 11/19/2015                                           | 9,172,619                                        | 10/27/2015                                        | Iboss, Inc.                                                 |
| 38097-0042003 MAINTAIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TAINING IP TABLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 14/850,817                                                                                                          | 9/10/2015                                                               | US-2016-0006624-A1                                                                                     | 01/07/2016                                           | 9,525,602                                        | 12/20/2016                                        | Iboss, Inc.                                                 |
| 38097-0042W01 MAINTAIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TAINING IP TABLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PCT/US2015/031220                                                                                                   | 5/15/2015                                                               | WO 2015/176021                                                                                         | 11/19/2015                                           |                                                  |                                                   | iboss. Inc                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NG APPROVED RESOURCES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2943561                                                                                                             | 3/25/2015                                                               |                                                                                                        |                                                      | 2943561                                          | 11/27/2018                                        | Iboss, Inc.                                                 |
| 38097-0043DE1 SERVING /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NG APPROVED RESOURCES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15770154.1                                                                                                          | 3/25/2015                                                               | 3123696                                                                                                |                                                      | 6.02015E+11                                      | 5/8/2019                                          | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NG APPROVED RESOURCES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15770154.1                                                                                                          | 3/25/2015                                                               | 3123696                                                                                                | 02/01/2017                                           | 3123696                                          | 5/8/2019                                          | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NG APPROVED RESOURCES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15770154.1                                                                                                          | 3/25/2015                                                               |                                                                                                        | ,, 2027                                              | 3123696                                          | 5/8/2019                                          | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NG APPROVED RESOURCES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15770154.1                                                                                                          | 3/25/2015                                                               |                                                                                                        |                                                      | 3123696                                          | 5/8/2019                                          | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NG APPROVED RESOURCES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 14/226.645                                                                                                          | 3/25/2015                                                               |                                                                                                        |                                                      | 8,904,483                                        | 12/2/2019                                         | lboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NG APPROVED RESOURCES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PCT/US2015/022554                                                                                                   | 3/25/2014                                                               | WO 2015/148713                                                                                         | 10/01/2015                                           | 0,-04,403                                        | 12/2/2014                                         | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                     |                                                                         | *** 5012/148/12                                                                                        | 10/01/2015                                           | 2020076                                          | 7/14/1000                                         |                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AGE ENCRYPTED NETWORK TRAFFIC USING SPOOFED ADDRESSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2939978                                                                                                             | 3/6/2015                                                                | 2114810                                                                                                | 04 (44 (9-1-                                         | 2939978                                          | 7/14/2020                                         | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AGE ENCRYPTED NETWORK TRAFFIC USING SPOOFED ADDRESSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15714315.7                                                                                                          | 3/6/2015                                                                | 3114810                                                                                                | 01/11/2017                                           |                                                  |                                                   | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AGE ENCRYPTED NETWORK TRAFFIC USING SPOOFED ADDRESSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 14/201,607                                                                                                          | 3/7/2014                                                                | US-2015-0256516-A1                                                                                     | 09/10/2015                                           | 9,596,217                                        | 3/14/2017                                         | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AGE ENCRYPTED NETWORK TRAFFIC USING SPOOFED ADDRESSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PCT/US2015/019290                                                                                                   | 3/6/2015                                                                | WO 2015/134933                                                                                         | 09/11/2015                                           |                                                  |                                                   | Iboss, Inc.                                                 |
| 30037 0010002 3011 1120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | WEBSITE BLOCK OVERRIDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14/188,549                                                                                                          | 2/24/2014                                                               |                                                                                                        |                                                      | 9,055,111                                        | 6/9/2015                                          | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WEBSITE BLOCK OVERRIDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14/730,110                                                                                                          | 6/3/2015                                                                | US-2015-0271209-A1                                                                                     | 09/24/2015                                           | 9,473,538                                        | 10/18/2016                                        | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WEBSITE BLOCK OVERRIDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 15/284,297                                                                                                          | 10/3/2016                                                               | US-2017-0026419-A1                                                                                     | 01/26/2017                                           | 9,961,113                                        | 5/1/2018                                          | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AGE ENCRYPTED NETWORK TRAFFIC USING DNS RESPONSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 14/280,513                                                                                                          | 5/16/2014                                                               |                                                                                                        |                                                      | 9,137,217                                        | 9/15/2015                                         | Iboss, Inc.                                                 |
| 38097-0047002 MANAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AGE ENCRYPTED NETWORK TRAFFIC USING DNS RESPONSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 14/848,219                                                                                                          | 9/8/2015                                                                | US-2015-0381559-A1                                                                                     | 12/31/2015                                           | 9,525,660                                        | 12/20/2016                                        | Iboss, Inc.                                                 |
| 38097-0047003 MANAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AGE ENCRYPTED NETWORK TRAFFIC USING DNS RESPONSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15/382,392                                                                                                          | 12/16/2016                                                              | US-2017-0099271-A1                                                                                     | 04/06/2017                                           | 9,813,394                                        | 11/7/2017                                         | Iboss, Inc.                                                 |
| 38097-0047004 MANAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AGE ENCRYPTED NETWORK TRAFFIC USING DNS RESPONSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15/803,660                                                                                                          | 11/3/2017                                                               | US-2018-0063097-A1                                                                                     | 03/01/2018                                           | 10,382,411                                       | 8/13/2019                                         | iBoss, Inc.                                                 |
| 38097-0047005 MANAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AGE ENCRYPTED NETWORK TRAFFIC USING DNS RESPONSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16/513,899                                                                                                          | 7/17/2019                                                               | US-2019-0364026-A1                                                                                     | 11/28/2019                                           |                                                  |                                                   | iBoss, Inc.                                                 |
| 38097-0048001 APPLYING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TING GROUP POLICIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 14/472,302                                                                                                          | 8/28/2014                                                               |                                                                                                        |                                                      | 9,124,638                                        | 9/1/2015                                          | Iboss, Inc.                                                 |
| 38097-0048002 APPLYING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ING GROUP POLICIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 14/835,063                                                                                                          | 8/25/2015                                                               | US-2016-0197956-A1                                                                                     | 07/07/2016                                           | 9,390,290                                        | 7/12/2016                                         | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ING GROUP POLICIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15/206,802                                                                                                          | 7/11/2016                                                               | US-2016-0323298-A1                                                                                     | 11/03/2016                                           | 9,705,898                                        | 7/11/2017                                         | Iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ING GROUP POLICIES BASED ON INSTALLATION OF A MOBILE DEVICE MANAGEMENT PROFILE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                     | . ,                                                                     |                                                                                                        | . ,                                                  |                                                  |                                                   | <del> </del>                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AGING MULTI-CUSTOMER NETWORK TRAFFIC USING LOWER LAYER PROTOCOL ATTRIBUTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 14/516,539                                                                                                          | 10/16/2014                                                              |                                                                                                        |                                                      | 9,203,741                                        | 12/1/2015                                         | iboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AGING NETWORK TRAFFIC BASED ON PROTOCOL ATTRIBUTES FROM MULTIPLE LAYERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | , 320,333                                                                                                           | 20/20/2014                                                              |                                                                                                        |                                                      | -,                                               | 16/1/2013                                         |                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AGING NETWORK TRAFFIC BASED ON PROTOCOLATTRIBUTES FROM MULTIPLE LAYERS  YZING APPLICATIONS IN A SANDBOX ENVIRONMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 62/030.043                                                                                                          | 7/28/2014                                                               |                                                                                                        |                                                      |                                                  | <b></b>                                           | <del>                                     </del>            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ,,                                                                                                                  | .,,                                                                     | NC 2046 00                                                                                             | 04 (05 (*****                                        | 0.044.050                                        | 44 /9 /                                           |                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TIVELY CAPTURING VIDEO IN A VIRTUAL ENVIRONMENT BASED ON APPLICATION BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 14/811,800                                                                                                          | 7/28/2015                                                               | US-2016-0026798-A1                                                                                     | 01/28/2016                                           | 9,811,658                                        | 11/7/2017                                         | lboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ATING EXPECTED NETWORK COMMUNICATIONS TO APPLICATIONS IN A VIRTUAL MACHINE ENVIRONMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14/811,812                                                                                                          | 7/28/2015                                                               | US-2016-0026789-A1                                                                                     | 01/28/2016                                           | 9,904,781                                        | 2/27/2018                                         | Iboss, Inc.                                                 |
| 38097-0056003 SELECTIVE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TIVELY INTRODUCING SECURITY ISSUES IN A SANDBOX ENVIRONMENT TO ELICIT MALICIOUS APPLICATION BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 14/811,797                                                                                                          | 7/28/2015                                                               | US-2016-0026788-A1                                                                                     | 01/28/2016                                           |                                                  |                                                   | lboss, Inc.                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | REDIRECTION FOR CACHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2956805                                                                                                             | 7/30/2015                                                               |                                                                                                        |                                                      | 2956805                                          | 7/23/2019                                         | Iboss, Inc.                                                 |
| 38097-0050CA1 WEB REDI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | REDIRECTION FOR CONTENT SCANNING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2956676                                                                                                             | 7/30/2015                                                               |                                                                                                        |                                                      | 2956676                                          | 7/9/2019                                          | Iboss, Inc.                                                 |
| 38097-0050CA1 WEB REDI<br>38097-0051CA1 WEB REDI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | REDIRECTION FOR CONTENT FILTERING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2956803                                                                                                             | 7/30/2015                                                               |                                                                                                        |                                                      | 2956803                                          | 7/9/2019                                          | lboss, Inc.                                                 |
| 38097-0050CA1 WEB REDI<br>38097-0051CA1 WEB REDI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                     | 2000000                                                                 |                                                                                                        |                                                      |                                                  |                                                   |                                                             |
| 38097-0050CA1 WEB REDI<br>38097-0051CA1 WEB REDI<br>38097-0052CA1 WEB REDI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | REDIRECTION FOR CACHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15826545.4                                                                                                          | 7/30/2015                                                               | 3175364                                                                                                |                                                      | 6.02015E+11                                      | 7/15/2020                                         | Iboss, Inc.                                                 |

| 38097-0050EP1                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CACHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15826545.4                                                                                                                                                                                                           | 7/30/2015                                                                                                                            | 3175364                                                                          | 06/07/2017                                           | 3175364                | 7/15/2020              | lboss, Inc.                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------|------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 38097-0051EP1                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CONTENT SCANNING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 15827343.3                                                                                                                                                                                                           | 7/30/2015                                                                                                                            | 3175366                                                                          | 06/07/2017                                           | 5175504                | 771372020              | Iboss, Inc.                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                                      |                                                                                  |                                                      |                        |                        |                                                                                                                                                                                                                                                 |
| 38097-0052EP1                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CONTENT FILTERING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15826979.5                                                                                                                                                                                                           | 7/30/2015                                                                                                                            | 3175365                                                                          | 06/07/2017                                           | 3175365                | 7/15/2020              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0050FR1                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CACHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15826545.4                                                                                                                                                                                                           | 7/30/2015                                                                                                                            |                                                                                  |                                                      | 3175364                | 7/15/2020              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0052FR1                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CONTENT FILTERING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15826979.5                                                                                                                                                                                                           | 7/30/2015                                                                                                                            |                                                                                  |                                                      | 3175365                | 7/15/2020              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0050GB1                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CACHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15826545.4                                                                                                                                                                                                           | 7/30/2015                                                                                                                            |                                                                                  |                                                      | 3175364                | 7/15/2020              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0052GB1                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CONTENT FILTERING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15826979.5                                                                                                                                                                                                           | 7/30/2015                                                                                                                            |                                                                                  |                                                      | 3175365                | 7/15/2020              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0050P01                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CACHING, CONTENT SCANNING, AND CONTENT FILTERING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 62/031,080                                                                                                                                                                                                           | 7/30/2014                                                                                                                            |                                                                                  |                                                      |                        |                        | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0050001                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CACHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 14/497,167                                                                                                                                                                                                           | 9/25/2014                                                                                                                            | US-2016-0036934-A1                                                               | 02/04/2016                                           | 9,237,204              | 1/12/2016              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0051001                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CONTENT SCANNING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14/497,246                                                                                                                                                                                                           | 9/25/2014                                                                                                                            |                                                                                  |                                                      | 9,094,443              | 7/28/2015              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0052001                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CONTENT FILTERING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 14/812,984                                                                                                                                                                                                           | 7/29/2015                                                                                                                            | US-2016-0036831-A1                                                               | 02/04/2016                                           | 9,654,500              | 5/16/2017              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0051002                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CONTENT SCANNING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14/810,319                                                                                                                                                                                                           | 7/27/2015                                                                                                                            | US-2016-0036830-A1                                                               | 02/04/2016                                           | 9,609,016              | 3/28/2017              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0050002                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CACHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 14/843,922                                                                                                                                                                                                           | 9/2/2015                                                                                                                             | US-2016-0036936-A1                                                               | 02/04/2016                                           | 9,900,341              | 2/20/2018              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0051003                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CONTENT SCANNING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 15/470,687                                                                                                                                                                                                           | 3/27/2017                                                                                                                            | US-2017-0201539-A1                                                               | 07/13/2017                                           | 9,900,328              | 2/20/2018              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0050003                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CACHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                      |                                                                                                                                      |                                                                                  |                                                      |                        |                        |                                                                                                                                                                                                                                                 |
| 38097-0050WO1                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CACHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PCT/US2015/042980                                                                                                                                                                                                    | 7/30/2015                                                                                                                            | WO 2016/019178                                                                   | 02/04/2016                                           |                        | -                      | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0051WO1                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CONTENT SCANNING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PCT/US2015/042995                                                                                                                                                                                                    | 7/30/2015                                                                                                                            | WO 2016/019185                                                                   | 02/04/2016                                           |                        | -                      | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0052WO1                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEB REDIRECTION FOR CONTENT FILTERING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PCT/US2015/042974                                                                                                                                                                                                    | 7/30/2015                                                                                                                            | WO 2016/019175                                                                   | 02/04/2016                                           |                        |                        | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0058001                                                                                                                                                                                                                                                                                                                                                                                                                                 | NETWORK TRAFFIC MANAGEMENT USING PORT NUMBER REDIRECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 14/566,587                                                                                                                                                                                                           | 12/10/2014                                                                                                                           | WO 2010/015175                                                                   | 02/04/2010                                           | 9,118,582              | 8/25/2015              | Iboss, Inc.                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                                      |                                                                                  |                                                      |                        |                        |                                                                                                                                                                                                                                                 |
| 38097-0058002                                                                                                                                                                                                                                                                                                                                                                                                                                 | NETWORK TRAFFIC MANAGEMENT USING PORT NUMBER REDIRECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 14/709,160                                                                                                                                                                                                           | 5/11/2015                                                                                                                            |                                                                                  |                                                      | 9,231,857              | 1/5/2016               | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0058003                                                                                                                                                                                                                                                                                                                                                                                                                                 | NETWORK TRAFFIC MANAGEMENT USING PORT NUMBER REDIRECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 14/987,486                                                                                                                                                                                                           | 1/4/2016                                                                                                                             | US-2016-0173632-A1                                                               | 06/16/2016                                           | 9,473,586              | 10/18/2016             | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0058004                                                                                                                                                                                                                                                                                                                                                                                                                                 | NETWORK TRAFFIC MANAGEMENT USING PORT NUMBER REDIRECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 15/273,534                                                                                                                                                                                                           | 9/22/2016                                                                                                                            | US-2017-0013078-A1                                                               | 01/12/2017                                           | 9,742,859              | 8/22/2017              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0058005                                                                                                                                                                                                                                                                                                                                                                                                                                 | NETWORK TRAFFIC MANAGEMENT USING PORT NUMBER REDIRECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 15/675,480                                                                                                                                                                                                           | 8/11/2017                                                                                                                            | US-2017-0366635-A1                                                               | 12/21/2017                                           | 10,218,807             | 2/26/2019              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0059001                                                                                                                                                                                                                                                                                                                                                                                                                                 | HIGH-RISK PROGRAM IDENTIFICATION BASED ON PROGRAM BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 14/697,558                                                                                                                                                                                                           | 4/27/2015                                                                                                                            | US-2016-0314298-A1                                                               | 10/27/2016                                           | 9,785,776              | 10/10/2017             | lboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0059002                                                                                                                                                                                                                                                                                                                                                                                                                                 | MALICIOUS PROGRAM IDENTIFICATION BASED ON PROGRAM BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 15/727,219                                                                                                                                                                                                           | 10/6/2017                                                                                                                            | US-2018-0032732-A1                                                               | 02/01/2018                                           | 10,460,109             | 10/29/2019             | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0059003                                                                                                                                                                                                                                                                                                                                                                                                                                 | MALICIOUS PROGRAM IDENTIFICATION BASED ON PROGRAM BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 16/666,324                                                                                                                                                                                                           | 10/28/2019                                                                                                                           | US-2020-0065492-A1                                                               | 02/27/2020                                           |                        |                        | iBoss, Inc.                                                                                                                                                                                                                                     |
| 38097-0061001                                                                                                                                                                                                                                                                                                                                                                                                                                 | SOFTWARE PROGRAM IDENTIFICATION BASED ON PROGRAM BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14/644,151                                                                                                                                                                                                           | 3/10/2015                                                                                                                            |                                                                                  |                                                      | 9,294,492              | 3/22/2016              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0061002                                                                                                                                                                                                                                                                                                                                                                                                                                 | SOFTWARE PROGRAM IDENTIFICATION BASED ON PROGRAM BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15/073,558                                                                                                                                                                                                           | 3/17/2016                                                                                                                            | US-2016-0269429-A1                                                               | 09/15/2016                                           | 9,531,740              | 12/27/2016             | lboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0065CA1                                                                                                                                                                                                                                                                                                                                                                                                                                 | SELECTIVELY ALTERING REFERENCES WITHIN ENCRYPTED PAGES USING MAN IN THE MIDDLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3023218                                                                                                                                                                                                              | 5/2/2017                                                                                                                             |                                                                                  |                                                      |                        |                        | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0065DE1                                                                                                                                                                                                                                                                                                                                                                                                                                 | SELECTIVELY ALTERING REFERENCES WITHIN ENCRYPTED PAGES USING MAN IN THE MIDDLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 17793160.7                                                                                                                                                                                                           | 5/2/2017                                                                                                                             | 3453152                                                                          |                                                      | 6.02017E+11            | 7/8/2020               | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0065EP1                                                                                                                                                                                                                                                                                                                                                                                                                                 | SELECTIVELY ALTERING REFERENCES WITHIN ENCRYPTED PAGES USING MAN IN THE MIDDLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 17793160.7                                                                                                                                                                                                           | 5/2/2017                                                                                                                             | 3453152                                                                          | 03/13/2019                                           | 3453152                | 7/8/2020               | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0065FR1                                                                                                                                                                                                                                                                                                                                                                                                                                 | SELECTIVELY ALTERING REFERENCES WITHIN ENCRYPTED PAGES USING MAN IN THE MIDDLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 17793160.7                                                                                                                                                                                                           | 5/2/2017                                                                                                                             |                                                                                  |                                                      | 3453152                | 7/8/2020               | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0065GB1                                                                                                                                                                                                                                                                                                                                                                                                                                 | SELECTIVELY ALTERING REFERENCES WITHIN ENCRYPTED PAGES USING MAN IN THE MIDDLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 17793160.7                                                                                                                                                                                                           | 5/2/2017                                                                                                                             |                                                                                  |                                                      | 3453152                | 7/8/2020               | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0065001                                                                                                                                                                                                                                                                                                                                                                                                                                 | SELECTIVELY ALTERING REFERENCES WITHIN ENCRYPTED PAGES USING MAN IN THE MIDDLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 15/145,672                                                                                                                                                                                                           | 5/3/2016                                                                                                                             |                                                                                  |                                                      | 9,680,801              | 6/13/2017              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0065WO1                                                                                                                                                                                                                                                                                                                                                                                                                                 | SELECTIVELY ALTERING REFERENCES WITHIN ENCRYPTED PAGES USING MAN IN THE MIDDLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PCT/US2017/030639                                                                                                                                                                                                    | 5/2/2017                                                                                                                             | WO 2017/192587                                                                   | 11/09/2017                                           | ,,,                    | .,,                    | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0066001                                                                                                                                                                                                                                                                                                                                                                                                                                 | SOFTWARE PROGRAM IDENTIFICATION BASED ON PROGRAM BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14/818,271                                                                                                                                                                                                           | 8/4/2015                                                                                                                             |                                                                                  | ,,                                                   | 9,390,268              | 7/12/2016              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0066002                                                                                                                                                                                                                                                                                                                                                                                                                                 | SOFTWARE PROGRAM IDENTIFICATION BASED ON PROGRAM BEHAVIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15/204,929                                                                                                                                                                                                           | 7/7/2016                                                                                                                             | US-2017-0041338-A1                                                               | 02/09/2017                                           | 9,674,215              | 6/6/2017               | lboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0067CA1                                                                                                                                                                                                                                                                                                                                                                                                                                 | APPLYING NETWORK POLICIES TO DEVICES BASED ON THEIR CURRENT ACCESS NETWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3023992                                                                                                                                                                                                              | 5/12/2017                                                                                                                            | 03 2017 0041030711                                                               | 02/03/2017                                           | 5,574,225              | 0,0,1017               | iboss, Inc                                                                                                                                                                                                                                      |
| 38097-0067EP1                                                                                                                                                                                                                                                                                                                                                                                                                                 | APPLYING NETWORK POLICIES TO DEVICES BASED ON THEIR CURRENT ACCESS NETWORK  APPLYING NETWORK POLICIES TO DEVICES BASED ON THEIR CURRENT ACCESS NETWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 17796996.1                                                                                                                                                                                                           | 5/12/2017                                                                                                                            | 3456063                                                                          | 03/20/2019                                           |                        |                        | iboss. Inc                                                                                                                                                                                                                                      |
| 38097-0067001                                                                                                                                                                                                                                                                                                                                                                                                                                 | APPLYING NETWORK POLICIES TO DEVICES BASED ON THEIR CURRENT ACCESS NETWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                                                                                                                      | US-2017-0331690-A1                                                               | ,,                                                   |                        |                        |                                                                                                                                                                                                                                                 |
| 38097-0067002                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15/153,506                                                                                                                                                                                                           | 5/12/2016                                                                                                                            |                                                                                  | 11/16/2017                                           |                        |                        | iBoss, Inc.                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                               | APPLYING NETWORK POLICIES TO DEVICES BASED ON THEIR CURRENT ACCESS NETWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 16/684,469                                                                                                                                                                                                           | 11/14/2019                                                                                                                           | US-2020-0084108-A1                                                               | 03/12/2020                                           |                        |                        | iBoss, Inc.                                                                                                                                                                                                                                     |
| 38097-0067003                                                                                                                                                                                                                                                                                                                                                                                                                                 | APPLYING NETWORK POLICIES TO DEVICES BASED ON THEIR CURRENT ACCESS NETWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 17/021,649                                                                                                                                                                                                           | 9/15/2020                                                                                                                            |                                                                                  |                                                      |                        |                        | iBoss, Inc.                                                                                                                                                                                                                                     |
| 38097-0067WO1                                                                                                                                                                                                                                                                                                                                                                                                                                 | APPLYING NETWORK POLICIES TO DEVICES BASED ON THEIR CURRENT ACCESS NETWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PCT/US2017/032533                                                                                                                                                                                                    | 5/12/2017                                                                                                                            | WO 2017/197349                                                                   | 11/16/2017                                           |                        | igwdow                 | iboss. Inc                                                                                                                                                                                                                                      |
| 38097-0072CA1                                                                                                                                                                                                                                                                                                                                                                                                                                 | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3033111                                                                                                                                                                                                              | 8/10/2017                                                                                                                            |                                                                                  |                                                      |                        | ullet                  | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0072DE1                                                                                                                                                                                                                                                                                                                                                                                                                                 | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 17840304.4                                                                                                                                                                                                           | 8/10/2017                                                                                                                            | 3497919                                                                          |                                                      | 6.02017E+11            | 10/7/2020              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0072EP1                                                                                                                                                                                                                                                                                                                                                                                                                                 | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 17840304,4                                                                                                                                                                                                           | 8/10/2017                                                                                                                            | 3497919                                                                          | 06/19/2019                                           | 3497919                | 10/7/2020              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0072FR1                                                                                                                                                                                                                                                                                                                                                                                                                                 | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 17840304.4                                                                                                                                                                                                           | 8/10/2017                                                                                                                            |                                                                                  |                                                      | 3497919                | 10/7/2020              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0072GB1                                                                                                                                                                                                                                                                                                                                                                                                                                 | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 17840304.4                                                                                                                                                                                                           | 8/10/2017                                                                                                                            |                                                                                  |                                                      | 3497919                | 10/7/2020              | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0072001                                                                                                                                                                                                                                                                                                                                                                                                                                 | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 15/233,894                                                                                                                                                                                                           | 8/10/2016                                                                                                                            | US-2018-0048709-A1                                                               | 02/15/2018                                           | 10,462,219             | 10/29/2019             | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0072002                                                                                                                                                                                                                                                                                                                                                                                                                                 | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 16/666,296                                                                                                                                                                                                           | 10/28/2019                                                                                                                           | US-2020-0068016-A1                                                               | 02/27/2020                                           |                        |                        | iBoss, Inc.                                                                                                                                                                                                                                     |
| 38097-0072003                                                                                                                                                                                                                                                                                                                                                                                                                                 | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                      |                                                                                                                                      |                                                                                  |                                                      |                        |                        |                                                                                                                                                                                                                                                 |
| 38097-0072004                                                                                                                                                                                                                                                                                                                                                                                                                                 | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                      |                                                                                                                                      |                                                                                  |                                                      | l                      | ١ ١                    |                                                                                                                                                                                                                                                 |
| 38097-0072005                                                                                                                                                                                                                                                                                                                                                                                                                                 | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                      | 1                                                                                                                                    |                                                                                  |                                                      |                        |                        |                                                                                                                                                                                                                                                 |
| 38097-0072WO1                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                      |                                                                                                                                      |                                                                                  |                                                      |                        |                        |                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                               | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PCT/US2017/046365                                                                                                                                                                                                    | 8/10/2017                                                                                                                            | WO 2018/031817                                                                   | 02/15/2018                                           |                        |                        | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0075001                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PCT/US2017/046365                                                                                                                                                                                                    | 8/10/2017                                                                                                                            | WO 2018/031817                                                                   | 02/15/2018                                           |                        |                        | lboss, Inc.                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                               | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PCT/US2017/046365<br>3035823                                                                                                                                                                                         | 8/10/2017<br>9/1/2017                                                                                                                | WO 2018/031817                                                                   | 02/15/2018                                           |                        |                        | lboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0075001                                                                                                                                                                                                                                                                                                                                                                                                                                 | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR CLOUD COMPUTING NODES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                                                      | WO 2018/031817                                                                   | 02/15/2018                                           | 6.02017E+11            | 8/12/2020              |                                                                                                                                                                                                                                                 |
| 38097-0075001<br>38097-0077CA1<br>38097-0077DE1                                                                                                                                                                                                                                                                                                                                                                                               | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR QUOD COMPUTING NODES MAILWARE DETECTION FOR PROYS SERVER NETWORKS MAILWARE DETECTION FOR PROYS SERVER NETWORKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3035823<br>17847650.3                                                                                                                                                                                                | 9/1/2017<br>9/1/2017                                                                                                                 | 3507964                                                                          |                                                      | 6.02017E+11<br>3507964 | -,,                    | Iboss, Inc.                                                                                                                                                                                                                                     |
| 38097-0075001<br>38097-0077CA1<br>38097-0077DE1<br>38097-0077EP1                                                                                                                                                                                                                                                                                                                                                                              | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR GLOUD COMPUTING NODES MALWARE DETECTION FOR PROXY SERVER NETWORKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3035823<br>17847650.3<br>17847650.3                                                                                                                                                                                  | 9/1/2017<br>9/1/2017<br>9/1/2017                                                                                                     |                                                                                  | 02/15/2018                                           | 3507964                | 8/12/2020              | lboss, Inc.<br>lboss, Inc.<br>lboss, Inc.                                                                                                                                                                                                       |
| 38097-0075001<br>38097-0077CA1<br>38097-0077DE1<br>38097-0077EP1<br>38097-0077FR1                                                                                                                                                                                                                                                                                                                                                             | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING SOLATION OF CUSTOMER DATA CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR CLOUD COMPUTING NODES MALWARE DETECTION FOR PROXY SERVER NETWORKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3035823<br>17847650.3<br>17847650.3<br>17847650.3                                                                                                                                                                    | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017                                                                                         | 3507964                                                                          |                                                      | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | lboss, Inc.<br>lboss, Inc.<br>lboss, Inc.<br>lboss, Inc.                                                                                                                                                                                        |
| 38097-0075001<br>38097-0077CA1<br>38097-0077DE1<br>38097-0077EP1<br>38097-0077FR1<br>38097-0077GB1                                                                                                                                                                                                                                                                                                                                            | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR QUOD COMPUTING NODES MALWARE DETECTION FOR PROXY SERVER NETWORKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3                                                                                                                                                      | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017                                                                             | 3507964<br>3507964                                                               | 07/10/2019                                           | 3507964                | 8/12/2020              | lboss, Inc. lboss, Inc. lboss, Inc. lboss, Inc. lboss, Inc.                                                                                                                                                                                     |
| 38097-0075001<br>38097-0077CA1<br>38097-0077DE1<br>38097-0077EP1<br>38097-0077FR1<br>38097-0077GB1<br>38097-0077001                                                                                                                                                                                                                                                                                                                           | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR GLOUD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>15/256,418                                                                                                                                        | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/2/2016                                                     | 3507964<br>3507964<br>US-2018-0069878-A1                                         | 07/10/2019                                           | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | lboss, Inc.<br>lboss, Inc.<br>lboss, Inc.<br>lboss, Inc.<br>lboss, Inc.<br>lboss, Inc.                                                                                                                                                          |
| 38097-0075001<br>38097-0077CA1<br>38097-0077DE1<br>38097-0077EP1<br>38097-0077FR1<br>38097-0077GB1<br>38097-0077001<br>38097-0077WO1                                                                                                                                                                                                                                                                                                          | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR GLOUD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3                                                                                                                                                      | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017                                                                             | 3507964<br>3507964                                                               | 07/10/2019                                           | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | lboss, Inc. lboss, Inc. lboss, Inc. lboss, Inc. lboss, Inc.                                                                                                                                                                                     |
| 38097-0075001<br>38097-0077CA1<br>38097-0077CF1<br>38097-0077CF1<br>38097-0077CF1<br>38097-0077CF1<br>38097-0077CF1<br>38097-0077CF1<br>38097-0077CF1<br>38097-0077CF1<br>38097-0077CF1<br>38097-0077CF1                                                                                                                                                                                                                                      | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR GLOUD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  ACCOUNT BASED SCORING IN A CMM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>15/256,418<br>PCT/US2017/049849                                                                                                                   | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/2/2016<br>9/1/2017                                         | 3507964<br>3507964<br>US-2018-0069878-A1                                         | 07/10/2019                                           | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | lboss, Inc.                                                                                                                                                 |
| 38097-0075001<br>38097-0077CA1<br>38097-0077DE1<br>38097-0077EP1<br>38097-0077FB1<br>38097-0077GB1<br>38097-0077001<br>38097-0077WO1<br>38097-0084CA1                                                                                                                                                                                                                                                                                         | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR QUOD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>15/256,418<br>PCT/US2017/049949<br>3,097,632                                                                                        | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/2/2016<br>9/1/2017<br>4/18/2019                            | 3507964<br>3507964<br>US-2018-0069878-A1                                         | 07/10/2019                                           | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | lboss, Inc.                                                                                                                                     |
| 38097-0075001<br>38097-0077CA1<br>38097-0077DE1<br>38097-0077EP1<br>38097-0077FR1<br>38097-0077FR1<br>38097-0077001<br>38097-0077W01<br>38097-007001<br>38097-0082001<br>38097-0084CA1<br>38097-0084CA1                                                                                                                                                                                                                                       | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR GLOUD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  ALWARE DETECTION FOR PROXY SERVER NETWORKS  ALWARE DETECTION FOR PROXY SERVER NETWORKS  ALWARE DETECTION FOR PROXY SERVER NETWORKS  ACCOUNT BASED SCORING IN A CRM  HERBID CLOUD COMPUTING NETWORK MANAGEMENT  HYBRID CLOUD COMPUTING NETWORK MANAGEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>15/256,418<br>PCT/US2017/049949<br>3,097,632<br>19789553.5                                                                                        | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2010<br>9/1/2017<br>4/18/2019                            | 3507964<br>3507964<br>US-2018-0069878-A1                                         | 07/10/2019                                           | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | iboss, inc.                                                                                                                                                 |
| 38097-0075001 38097-0077CA1 38097-0077CP1 38097-0077EP1 38097-00776B1 38097-0077GB1 38097-0077W01 38097-0077W01 38097-0084CA1 38097-0084CA1 38097-0084LP1                                                                                                                                                                                                                                                                                     | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR ACUOL COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  ACCOUNT BASED SCORING IN A ORM  HYBRID CLOUD COMPUTING NETWORK MANAGEMENT  HYBRID CLOUD COMPUTING NETWORK MANAGEMENT  HYBRID CLOUD COMPUTING NETWORK MANAGEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>1794760.3<br>1794949<br>3,097,632<br>19789553.5<br>UNKNOWN                                              | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>4/18/2019<br>4/18/2019               | 3507964<br>3507964<br>US-2018-0069878-A1                                         | 07/10/2019                                           | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | lboss, Inc.                                                                                     |
| 38097-0075001 38097-0077CA1 38097-0077DE1 38097-0077PE1 38097-0077FE1 38097-0077FE1 38097-0077FE1 38097-0077FE1 38097-0082001 38097-0084CA1 38097-0084EP1 38097-0084EP1 38097-0084P01                                                                                                                                                                                                                                                         | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR QUOD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  MALWARE DETECTION F | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>15/256,418<br>PCT/US2017/049949<br>3.097,632<br>UNINGOWN<br>62/659,644                                                              | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>4/18/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019 | 3507964<br>3507964<br>U5-2018-0069878-A1<br>WO 2018/045338                       | 07/10/2019<br>03/08/2018<br>03/08/2018               | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | hboss, inc. bboss, inc. bboss, inc.                                                                                                 |
| 38097-0075001 38097-00776A1 38097-0077E1 38097-0077E1 38097-0077E1 38097-0077E1 38097-0077E1 38097-0077E1 38097-0077E1 38097-0077E1 38097-0082001 38097-008401 38097-0084EP1 38097-0084EP1 38097-0084EP1 38097-0084EP1 38097-0084EP1                                                                                                                                                                                                          | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR GLOUD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  MALWARE DETECTION  | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>1794760.3<br>1794949<br>3,097,632<br>19789553.5<br>UNKNOWN                                              | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>4/18/2019<br>4/18/2019               | 3507964<br>3507964<br>US-2018-0069878-A1                                         | 07/10/2019                                           | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | lboss, Inc.                                                                                     |
| 38097-0075001 38097-00776A1 38097-00770E1 38097-00770E1 38097-00778E1 38097-00776B1 38097-00776B1 38097-0077001 38097-0077001 38097-0082001 38097-0082001 38097-00840A1 38097-00840A1 38097-00840A1 38097-0084001 38097-0084001                                                                                                                                                                                                               | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA  CUSTOMER-SPECINC ELASTIC CONTAINERS FOR ACUD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  ACCOUNT BASED SCORING IN A CRM  HYBERD CLOUD COMPUTING NETWORK MANAGEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>15/256,418<br>PCT/US2017/049949<br>3.097,632<br>UNINGOWN<br>62/659,644                                                              | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>4/18/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019 | 3507964<br>3507964<br>U5-2018-0069878-A1<br>WO 2018/045338                       | 07/10/2019<br>03/08/2018<br>03/08/2018               | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | hboss, inc. bboss, inc. bboss, inc.                                                                                                 |
| 38097-007500<br>38097-007761<br>38097-007761<br>38097-007761<br>38097-007761<br>38097-007761<br>38097-007761<br>38097-0077001<br>38097-0077001<br>38097-0084001<br>38097-008401<br>38097-008401<br>38097-008401<br>38097-0084001<br>38097-0084001<br>38097-0084001                                                                                                                                                                            | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING SOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR QUOD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  MALWARE DETECTION FO | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>15/256,418<br>PCT/US2017/049949<br>3.097,632<br>UNINGOWN<br>62/659,644                                                              | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>4/18/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019 | 3507964<br>3507964<br>U5-2018-0069878-A1<br>WO 2018/045338                       | 07/10/2019<br>03/08/2018<br>03/08/2018               | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | hboss, inc. bboss, inc. bboss, inc.                                                                                                 |
| 38097-0075001 38097-00776A1 38097-00770E1 38097-00770E1 38097-00778E1 38097-00776B1 38097-00776B1 38097-0077001 38097-0077001 38097-0082001 38097-0082001 38097-00840A1 38097-00840A1 38097-00840A1 38097-0084001 38097-0084001                                                                                                                                                                                                               | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR GLOUD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  MALWARE DETECTION  | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>15/256,418<br>PCT/US2017/049949<br>3.097,632<br>UNINGOWN<br>62/659,644                                                              | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>4/18/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019 | 3507964<br>3507964<br>U5-2018-0069878-A1<br>WO 2018/045338                       | 07/10/2019<br>03/08/2018<br>03/08/2018               | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | hboss, inc. bboss, inc. bboss, inc.                                                                                                 |
| 38097-007500<br>38097-007761<br>38097-007761<br>38097-007761<br>38097-007761<br>38097-007761<br>38097-007761<br>38097-0077001<br>38097-0077001<br>38097-0084001<br>38097-008401<br>38097-008401<br>38097-008401<br>38097-0084001<br>38097-0084001<br>38097-0084001                                                                                                                                                                            | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING SOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR QUOD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  MALWARE DETECTION FO | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>15/256,418<br>PCT/US2017/049949<br>3.097,632<br>UNINGOWN<br>62/659,644                                                              | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>4/18/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019 | 3507964<br>3507964<br>U5-2018-0069878-A1<br>WO 2018/045338                       | 07/10/2019<br>03/08/2018<br>03/08/2018               | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | hboss, inc. bboss, inc. bboss, inc.                                                                                                 |
| 38097-0075001 38097-00776A1 38097-00776B1 38097-00778F1 38097-00778F1 38097-00776B1 38097-00776B1 38097-00776B1 38097-00776B1 38097-0082001 38097-0082001 38097-0084001 38097-0084P1 38097-0084P1 38097-0084P1 38097-0084P01 38097-0084D01 38097-0084D01 38097-0084D01 38097-0084D01 38097-0084D01                                                                                                                                            | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR GLOUD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  MALWARE DETECTION  | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>187766.418<br>PCT/US2017/049949<br>18789553.5<br>UNINGOWN<br>62/053.5<br>44<br>16/388.551 | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2019<br>9/1/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019 | 3507964<br>3507964<br>U5-2015-0069878-A1<br>W0 2018/045338<br>U5-2015-0327253-A1 | 07/10/2019<br>03/08/2018<br>03/08/2018<br>10/24/2019 | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | iboss, Inc. |
| 38097-0075001 38097-0077611 38097-007701 38097-007701 38097-007701 38097-007761 38097-007761 38097-007761 38097-0077001 38097-0057001 38097-0058001 38097-0058001 38097-0058401 38097-0058401 38097-0058401 38097-00584001 38097-00584001 38097-00584001                                                                                                                                                                                      | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR ACUDE COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  ACCOUNT BASED SCORING IN A ORM  HYBERD CLOUD COMPUTING NETWORK MANAGEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>187766.418<br>PCT/US2017/049949<br>18789553.5<br>UNINGOWN<br>62/053.5<br>44<br>16/388.551 | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2019<br>9/1/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019 | 3507964<br>3507964<br>U5-2015-0069878-A1<br>W0 2018/045338<br>U5-2015-0327253-A1 | 07/10/2019<br>03/08/2018<br>03/08/2018<br>10/24/2019 | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | iboss, Inc. |
| 38097-007500 38097-007761 38097-007761 38097-007761 38097-007761 38097-007761 38097-007761 38097-007761 38097-007761 38097-007761 38097-007861 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001                                                                                                                                                                                                            | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING SOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR GLOUD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  MALWARE DETECTION F | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>187766.418<br>PCT/US2017/049949<br>18789553.5<br>UNINGOWN<br>62/053.5<br>44<br>16/388.551 | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2019<br>9/1/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019 | 3507964<br>3507964<br>U5-2015-0069878-A1<br>W0 2018/045338<br>U5-2015-0327253-A1 | 07/10/2019<br>03/08/2018<br>03/08/2018<br>10/24/2019 | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | iboss, inc. |
| 38097-0075001 38097-007761 38097-007761 38097-007761 38097-007761 38097-007761 38097-007761 38097-007761 38097-0087001 38097-0082001 38097-0082001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001                                                                                        | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING SOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR GLOUD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  MALWARE DETECTION F | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>187766.418<br>PCT/US2017/049949<br>18789553.5<br>UNINGOWN<br>62/053.5<br>44<br>16/388.551 | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2019<br>9/1/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019 | 3507964<br>3507964<br>U5-2015-0069878-A1<br>W0 2018/045338<br>U5-2015-0327253-A1 | 07/10/2019<br>03/08/2018<br>03/08/2018<br>10/24/2019 | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | iboss, Inc. |
| 38097-0075001 38097-0077611 38097-007761 38097-0077E1 38097-0077E1 38097-0077E1 38097-0077E1 38097-0077E1 38097-0077E1 38097-0082001 38097-0084P1 38097-0084P01 38097-0094P01 | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA  CUSTOMER-SPECINC ELASTIC CONTAINERS FOR ACUDE COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  ACCOUNT BASED SCORING IN A CRM  HYBERD CLOUD COMPUTING NETWORK MANAGEMENT  HYBERD CLOUD | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>187766.418<br>PCT/US2017/049949<br>18789553.5<br>UNINGOWN<br>62/053.5<br>44<br>16/388.551 | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2019<br>9/1/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019 | 3507964<br>3507964<br>U5-2015-0069878-A1<br>W0 2018/045338<br>U5-2015-0327253-A1 | 07/10/2019<br>03/08/2018<br>03/08/2018<br>10/24/2019 | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | iboss, inc. |
| 38097-007500 38097-007761 38097-007761 38097-007761 38097-007761 38097-007761 38097-007761 38097-007761 38097-007761 38097-007761 38097-007861 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0094001 38097-0095001                                                                                                                                      | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING SOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR GLOUD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  ACCOUNT BASED SCORING IN A CRM  HYBEID CLOUD COMPUTING NETWORK MANAGEMENT  SASE PROJECT  COMPUTER SECURITY SERVICE HAVING GORGANIZATION -SPECIFIC INTERFACE ADDRESSES  COMPUTER SECURITY SERVICE HAVING GORGANIZATION -SPECIFIC INTERFACE ADDRESSES  COMPUTER SECURITY SERVICE HAVING GOCATION SPECIFIC INTERFACE ADDRESSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>187766.418<br>PCT/US2017/049949<br>18789553.5<br>UNINGOWN<br>62/053.5<br>44<br>16/388.551 | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2019<br>9/1/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019 | 3507964<br>3507964<br>U5-2015-0069878-A1<br>W0 2018/045338<br>U5-2015-0327253-A1 | 07/10/2019<br>03/08/2018<br>03/08/2018<br>10/24/2019 | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | iboss, inc. |
| 38097-007500 38097-007761 38097-007761 38097-007761 38097-007761 38097-007761 38097-007761 38097-007761 38097-0077001 38097-0082001 38097-0082001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-00964001 38097-00964001 38097-00964001 38097-00964001 38097-00964001 38097-00964001 38097-00964001 38097-00964001 38097-00964001 38097-00964001         | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING ISOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR CLOUD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  ACCOUNT BASED SCORING IN A CRM  HYBERD CLOUD COMPUTING NETWORK MANAGEMENT  HYBERD CLOUD SEQUETING SERVICE HAVING ORGANIZATION-SPECIFIC INTERFACE ADDRESSES  COMPUTER SECURITY SERVICE HAVING ORGANIZATION-SPECIFIC INTERFACE ADDRESSES  COMPUTER SECURITY SERVICE HAVING DUCTON-SPECIFIC INTERFACE ADDRESSES  COMPUTER  | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>187766.418<br>PCT/US2017/049949<br>18789553.5<br>UNINGOWN<br>62/053.5<br>44<br>16/388.551 | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2019<br>9/1/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019 | 3507964<br>3507964<br>U5-2015-0069878-A1<br>W0 2018/045338<br>U5-2015-0327253-A1 | 07/10/2019<br>03/08/2018<br>03/08/2018<br>10/24/2019 | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | iboss, Inc. |
| 38097-0075001 38097-0077CA1 38097-0077CA1 38097-0077E1 38097-0077E1 38097-0077E1 38097-0077E1 38097-0077E1 38097-0077E1 38097-007FE1 38097-0082001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0084001 38097-0094001 38097-0095001 38097-0095001 38097-0095001                                                                                                      | DISTRIBUTED NETWORK SECURITY SYSTEM PROVIDING SOLATION OF CUSTOMER DATA  CUSTOMER-SPECIFIC ELASTIC CONTAINERS FOR QUOD COMPUTING NODES  MALWARE DETECTION FOR PROXY SERVER NETWORKS  MALWARE DETECTION FO | 3035823<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>17847650.3<br>187766.418<br>PCT/US2017/049949<br>18789553.5<br>UNINGOWN<br>62/053.5<br>44<br>16/388.551 | 9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2017<br>9/1/2019<br>9/1/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019<br>4/18/2019 | 3507964<br>3507964<br>U5-2015-0069878-A1<br>W0 2018/045338<br>U5-2015-0327253-A1 | 07/10/2019<br>03/08/2018<br>03/08/2018<br>10/24/2019 | 3507964<br>3507964     | 8/12/2020<br>8/12/2020 | iboss, Inc. |

# EXHIBIT C

Trademarks

(see attached)

# **TRADEMARKS**

| US2 (IC 42)                                     |           | Oct 21, 2014 | <b>N NUMBER</b><br>4793493 | <b>N DATE</b><br>Aug 18, 2015 | NAME<br>United States<br>of America | STATUS<br>Registered | CODE(S)<br>42 | CLASS CODE(S) & DESCRIPTION  42-Providing on-line non-downloadable data and network security software for the defense, detection, monitoring, and                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------|-----------|--------------|----------------------------|-------------------------------|-------------------------------------|----------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IBOS-TM-0003- FIRESPHERE<br>AR2 (IC 42)         | 909279071 | Apr 21, 2015 | 2792981                    | Apr 4, 2016                   | Argentina                           | Registered           | 42            | quarantining of unauthorized content 42-Providing on-line non-downloadable data and network security software for the defense, detection, monitoring, and quarantining of unauthorized content                                                                                                                                                                                                                                                                                                                                                                                            |
| IBOS-TM-0003- FIRESPHERE                        | 909279071 | Apr 22, 2015 | 909279071                  | Oct 10, 2017                  | Brazil                              | Registered           | 42            | 42-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| BR2 (IC 42) IBOS-TM-0003- FIRESPHERE US1 (IC 9) | 86430495  | Oct 21, 2014 | 4807013                    | Sep 8, 2015                   | United States<br>of America         | Registered           | 9             | 9-Data and network security software for the defense, detection, monitoring, and quarantining of unauthorized content; Computer hardware, namely, hardware for the defense, detection, monitoring, and quarantining of unauthorized content                                                                                                                                                                                                                                                                                                                                               |
| BOS-TM-0003- FIRESPHERE (IC 9)                  | 1253157   | Apr 20, 2015 | 1253157                    | Apr 20, 2015                  | Australia                           | Registered           | 9             | 9-Data and network security software for the defense, detection, monitoring, and quarantining of unauthorized content; computer hardware, namely, hardware for the defense, detection, monitoring, and quarantining of unauthorized content.                                                                                                                                                                                                                                                                                                                                              |
| IBOS-TM-0003- FIRESPHERE<br>EM1 (IC 9)          | 1253157   | Apr 20, 2015 | 1253157                    | Apr 20, 2015                  | European<br>Union                   | Registered           | 9             | 9-Data and network security software for the defense, detection, monitoring, and quarantining of unauthorized content; computer hardware, namely, hardware for the defense, detection, monitoring, and quarantining of unauthorized content.                                                                                                                                                                                                                                                                                                                                              |
| IBOS-TM-0003- FIRESPHERE MX1 (IC 9)             | 1253157   | Apr 20, 2015 | 1253157                    | Apr 20, 2015                  | Mexico                              | Registered           | 9             | 9-Data and network security software for the defense, detection, monitoring, and quarantining of unauthorized content; computer hardware, namely, hardware for the defense, detection, monitoring, and quarantining of unauthorized content.                                                                                                                                                                                                                                                                                                                                              |
| IBOS-TM-0003- FIRESPHERE W01 (IC 9)             | 1253157   | Apr 20, 2015 | 1253157                    | Apr 20, 2015                  | International<br>Bureau (WIPO)      | Registered           | 9             | 9-Data and network security software for the defense, detection, monitoring, and quarantining of unauthorized content; computer hardware, namely, hardware for the defense, detection, monitoring, and quarantining of unauthorized content.                                                                                                                                                                                                                                                                                                                                              |
| BR1 (IC 9)                                      | 909279020 | Apr 21, 2015 | 909279020                  | Oct 10, 2017                  | Brazil                              | Registered           |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| IBOS-TM-0003- FIRESPHERE AR1 (IC 9)             | 3403624   | Apr 21, 2015 | 2792980                    | Apr 4, 2016                   | Argentina                           | Registered           | 9             | 9-Data and network security hardware and software for the defense, detection, monitoring, and quarantining of                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                 |           |              |                            |                               |                                     |                      |               | unauthorized content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| IBOS-TM-0003-<br>CA1 (IC 9, 42)                 | 1724813   | Apr 21, 2015 | TMA965027                  | Mar 7, 2017                   | Canada                              | Registered           | 42,9          | 42-Providing on-line non-downloadable data and network security software for the defense, detection, monitoring, and quarantining of unauthorized content* 9-Data and network security software for the defense, detection, monitoring, and quarantining of unauthorized content; Computer hardware, namely, hardware for the defense, detection, monitoring, and quarantining of unauthorized content                                                                                                                                                                                    |
| IBOS-TM-0001- IBOSS<br>CA1                      | 1699472   | Oct 23, 2014 |                            |                               | Canada                              | Pending              | 42,9          | 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and web sites, in the fields of personal productivity, device and data content security, wireless communication, mobile information access, and remote data management for wireless delivery of content to computers, laptops and mobile electronic devices* 9-Electronic devices for computer network and data security; computer network and data security; aptop and mobile electronic device security software; data content security software                        |
| IBOS-TM-0001- IBOSS<br>EM1                      | 013399035 | Oct 23, 2014 | 013399035                  | Oct 23, 2014                  | European<br>Union                   | Registered           | 42,9          | 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and web sites, in the fields of personal\ productivity, device and data content security, wireless communication, mobile Information access, and remote data management for wireless delivery of content to computers, laptops and mobile electronic devices.* 9-Electronic devices for computer network and data security; computer network and data security software; computer, laptop and mobile electronic device security software; data content security software. |
| IBOS-TM-0001- IBOSS<br>MX1                      | 1541254   | Oct 23, 2014 | 1579832                    | Oct 12, 2015                  | Mexico                              | Registered           | 9             | 9-Electronic devices for computer network and data security; computer network and data security software; computer, laptop and mobile electronic device security software; data content security software                                                                                                                                                                                                                                                                                                                                                                                 |

| IBOS-TM-0001- IBOSS<br>AU1 | 1725131           | Apr 7, 2015 1266662            | Apr 7, 2015 Australia                     | Registered | 9     | 9-Computer network and data security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer, laptop, and mobile electronic device security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; data-content security software for the defense, prevention, detection, monitoring, and guarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|-------------------|--------------------------------|-------------------------------------------|------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IBOS-TM-0001- IBOSS<br>WO1 | 1266662           | Apr 7, 2015 1266662            | Apr 7, 2015 International<br>Bureau (WIPO | _          | 42, 9 | 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and websites in the fields of device and data-content security for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security, *9-Electronic devices for computer network and data security, namely, computer servers, for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer network and data security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer, laptop, and mobile electronic device security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; data-content security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security.                                                                                                                                                                                                                      |
| IBOS-TM-0001- IBOSS<br>CN1 | 19318634          | Mar 16, 2016                   | China                                     | Pending    | 42    | 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and websites in the fields of device and data-content security for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| IBOS-TM-0001- IBOSS GB1    | UK000033788<br>25 | Feb 27, 2019 UK000033788<br>25 | Jul 19, 2019 United<br>Kingdom            | Registered | 42, 9 | 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and websites in the fields of device and data-content security for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security* 9-Electronic devices for computer network and data security, namely, computer servers, for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer network and data security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer, laptop, and mobile electronic device security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; data-content security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; data-content security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security. |

network's security

IBOS-TM-0005- IBOSS 86955662 Mar 28, 2016 5054725 Oct 4, 2016 United States Registered 42.9 42-Software as a service (SAAS) services featuring software for CONNECT US1 of America use in the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity in the fields of device and data-content security\* 9-Downloadable computer network and data security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer, laptop, and mobile electronic device security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; data-content security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security <u>IBOS-TM-0004-</u> <u>IBOSS Design</u> 86915365 Feb 22, 2016 5072006 Nov 1, 2016 United States Registered 42,9 42-Application service provider, namely, hosting, managing, US1 of America developing, and maintaining applications, software, and websites in the fields of device and data-content security for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security\* 9-Electronic devices for computer network and data security, namely, computer servers, for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer network and data security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer, laptop, and mobile electronic device security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; data-content security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security IBOS-TM-0004- IBOSS Design UK000033788 Feb 27, 2019 UK000033788 Jul 19, 2019 United Registered 42.9 42-Application service provider, namely, hosting, managing, <u>GB1</u> 58 58 Kingdom developing, and maintaining applications, software, and websites in the fields of device and data-content security for

the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security\* 9-Electronic devices for computer network and data security, namely, computer servers, for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer network and data security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer, laptop, and mobile electronic device security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; data-content security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security

IBOS-TM-0004- IBOSS Design 018033655 Mar 8, 2019 018033655 Sep 3, 2019 European Registered 42.9 42-Application service provider, namely, hosting, managing, EM1 Union developing, and maintaining applications, software, and websites in the fields of device and data-content security for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security\* 9-Electronic devices for computer network and data security, namely, computer servers, for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer network and data security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer, laptop, and mobile electronic device security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; data-content security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security <u>IBOS-TM-0004-</u> <u>IBOSS Design</u> 1951571 Mar 14, 2019 Pending 42,9 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and websites in the fields of device and data-content security for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security\* 9-Electronic devices for computer network and data security, namely, computer servers, for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer network and data security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer, laptop, and mobile electronic device security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; data-content security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security IBOS-TM-0004- IBOSS 19318632 Mar 16, 2016 China Pending 42 42-Application service provider, namely, hosting, managing, CN2 Design@C 42) developing, and maintaining applications, software, and websites in the fields of device and data-content security for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security IBOS-TM-0004- IBOSS 19318633 Mar 16, 2016 19318633 May 7, 2018 China Registered 9-<u>CN1</u> Design(dC 9)

| IBOS-TM-0001- IBOSS US1               | 86260188          | Apr 23, 2014 4792906   | Aug 18, 2015 United States of America   | Registered | 42,9 | 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and websites in the fields of device and data-content security for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security* 9-Electronic devices for computer network and data security, namely, computer servers, for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer network and data security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer, laptop, and mobile electronic device security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; data-content security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; data-content security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security. |
|---------------------------------------|-------------------|------------------------|-----------------------------------------|------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IBOS-TM-0005- IBOSSCONNEC EM1 I       | 015288608         | Mar 29, 2016 015288608 | Aug 2, 2016 European<br>Union           | Registered | 42,9 | 42-Software as a service (SAAS) services featuring software for use in the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity in the fields of device and data-content security. * 9-Downloadable computer network and data security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; computer, laptop, and mobile electronic device security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security; data-content security software for the defense, prevention, detection, monitoring, and quarantining of unauthorized and/or malicious content or activity to prevent data loss and/or threats to a network's security.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| IBOS-TM-0002- MOBILEETHER US1 (IC 42) | <u>8</u> 86015529 | Jul 19, 2013 4504679   | Apr 1, 2014 United States<br>of America | Registered | 42   | 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and web sites, in the fields of personal productivity, wireless communication, mobile information access, and remote data management for wireless delivery of content to handheld computers, laptops and mobile electronic devices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| IBOS-TM-0002- MOBILEETHER CN1 (IC 42) | <u>1</u> 1195811  | Jan 13, 2014 1195811   | Jan 13, 2014 China                      | Registered | 42   | 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and web sites, in the fields of personal productivity, wireless communication, mobile information access, and remote data management for wireless delivery of content to handheld computers, laptops and mobile electronic devices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| IBOS-TM-0002- MOBILEETHER AU1 (IC 42) | 1195811           | Jan 13, 2014 1195811   | Jan 13, 2014 Australia                  | Registered | 42   | 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and web sites, in the fields of personal productivity, wireless communication, mobile information access, and remote data management for wireless delivery of content to handheld computers, laptops and mobile electronic devices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| BOS-TM-0002- MOBILEETHER EM1 (IC 42)  | 1195811           | Jan 13, 2014 1195811   | Jan 13, 2014 European<br>Union          | Registered | 42   | 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and web sites, in the fields of personal productivity, wireless communication, mobile information access, and remote data management for wireless delivery of content to handheld computers, laptops and mobile electronic devices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| IBOS-TM-0002- MOBILEETHER IN1 (IC 42) | <u>1</u> 2721027  | Jan 13, 2014 1195811   | Jan 13, 2014 India                      | Registered | 42   | 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and web sites, in the fields of personal productivity, wireless communication, mobile information access, and remote data management for wireless delivery of content to handheld computers, laptops and mobile electronic devices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|                                    | MOBILEETHER 1494678<br>(IC 42)   | Jan 13, 2014 1195811   | Jan 13, 2014 Mexico                         | Registered | 42 | 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and web sites, in the fields of personal productivity, wireless communication, mobile information access, and remote data management for wireless delivery of content to handheld computers, laptops and mobile electronic devices. |
|------------------------------------|----------------------------------|------------------------|---------------------------------------------|------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IBOS-TM-0002-<br>RU1               | MOBILEETHER 1195811<br>(IC 42)   | Jan 13, 2014 1195811   | Jan 13, 2014 Russian<br>Federation          | Registered | 42 | 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and web sites, in the fields of personal productivity, wireless communication, mobile information access, and remote data management for wireless delivery of content to handheld computers, laptops and mobile electronic devices. |
| <u>IBOS-TM-0002-</u><br><u>WO1</u> | MOBILEETHER 1195811<br>(IC 42)   | Jan 13, 2014 1195811   | Jan 13, 2014 International<br>Bureau (WIPO) | Registered | 42 | 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and web sites, in the fields of personal productivity, wireless communication, mobile information access, and remote data management for wireless delivery of content to handheld computers, laptops and mobile electronic devices. |
| IBOS-TM-0002-<br>CA1               | MOBILEETHER 1659688<br>(IC 42)   | Jan 15, 2014 TMA931088 | Mar 9, 2016 Canada                          | Registered | 42 | 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and web sites, in the fields of personal productivity, wireless communication, mobile information access, and remote data management for wireless delivery of content to handheld computers, laptops and mobile electronic device   |
| IBOS-TM-0002-<br>BR1               | MOBILEETHER 840766890<br>(IC 42) | Jan 17, 2014 840766890 | Sep 26, 2017 Brazil                         | Registered | 42 | 42-Application service provider, namely, hosting, managing, developing, and maintaining applications, software, and web                                                                                                                                                                                                                             |
|                                    |                                  |                        |                                             |            |    | sites, in the fields of personal productivity, wireless communication, mobile information access, and remote data                                                                                                                                                                                                                                   |
|                                    |                                  |                        |                                             |            |    | management for wireless delivery of content to handheld computers, laptops and mobile electronic devices                                                                                                                                                                                                                                            |

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