

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

|                            |                               |
|----------------------------|-------------------------------|
| SUBMISSION TYPE:           | NEW ASSIGNMENT                |
| NATURE OF CONVEYANCE:      | Security Agreement            |
| CONVEYING PARTY DATA       |                               |
| Name                       | Execution Date                |
| KOOLSPAN, INC.             | 09/24/2013                    |
| RECEIVING PARTY DATA       |                               |
| Name:                      | SILICON VALLEY BANK           |
| Street Address:            | 275 Grove Street, Suite 2-200 |
| City:                      | Newton                        |
| State/Country:             | MASSACHUSETTS                 |
| Postal Code:               | 02466                         |
| PROPERTY NUMBERS Total: 38 |                               |
| Property Type              | Number                        |
| Patent Number:             | 7325134                       |
| Patent Number:             | 7574731                       |
| Patent Number:             | 7607015                       |
| Patent Number:             | 7934005                       |
| Patent Number:             | 7325133                       |
| Patent Number:             | 7827409                       |
| Patent Number:             | 7725933                       |
| Patent Number:             | 7913085                       |
| Patent Number:             | 7907735                       |
| Patent Number:             | 8364978                       |
| Patent Number:             | 7954136                       |
| Application Number:        | 12028370                      |
| Application Number:        | 11951202                      |
| Application Number:        | 12324505                      |
| Application Number:        | 12533778                      |

OP \$1520.00 7325134

|                     |              |
|---------------------|--------------|
| Application Number: | 12860205     |
| Application Number: | 12109883     |
| Application Number: | 13044590     |
| Patent Number:      | 7886146      |
| Patent Number:      | 7853788      |
| Patent Number:      | 8301891      |
| Patent Number:      | 8345875      |
| Patent Number:      | 8316142      |
| Patent Number:      | 8515078      |
| Application Number: | 12890023     |
| Application Number: | 13026764     |
| Application Number: | 13716592     |
| Application Number: | 13626292     |
| Application Number: | 11955855     |
| PCT Number:         | US2007014459 |
| PCT Number:         | US2007014472 |
| PCT Number:         | US2007026441 |
| PCT Number:         | US2008084998 |
| PCT Number:         | US2008064970 |
| PCT Number:         | US2008085006 |
| PCT Number:         | US2009052458 |
| PCT Number:         | US2010046155 |
| PCT Number:         | US2011027821 |

# CORRESPONDENCE DATA

Fax Number: 8004947512  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
Phone: 2023704761  
Email: tfahey@nationalcorp.com  
Correspondent Name: Thomas Fahey  
Address Line 1: 1025 Vermont Avenue NW, Suite 1130  
Address Line 2: National Corporate Research, Ltd.  
Address Line 4: Washington, DISTRICT OF COLUMBIA 20005

|                         |               |
|-------------------------|---------------|
| ATTORNEY DOCKET NUMBER: | F146504       |
| NAME OF SUBMITTER:      | ANDREW NASH   |
| Signature:              | /ANDREW NASH/ |

**PATENT**

**REEL: 031282 FRAME: 0690**

09/24/2013

**Total Attachments: 11**

source=Patent#page2.tif  
source=Patent#page3.tif  
source=Patent#page4.tif  
source=Patent#page5.tif  
source=Patent#page6.tif  
source=Patent#page7.tif  
source=Patent#page8.tif  
source=Patent#page9.tif  
source=Patent#page10.tif  
source=Patent#page11.tif  
source=Patent#page12.tif

## INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement (this "Agreement") is entered into as of September 24, 2013 by and between **SILICON VALLEY BANK**, a California corporation, with a loan production office located at 275 Grove Street, Suite 2-200, Newton, Massachusetts 02466 ("Bank") and **KOOLSPAN, INC.**, a Delaware corporation, with its principal place of business located at 7735 Old Georgetown Road, Suite 500, Bethesda, Maryland 20814 ("Grantor").

### RECITALS

A. Bank has agreed to make certain advances of money and to extend certain financial accommodations to Grantor (the "Loans") in the amounts and manner set forth in (a) that certain Loan and Security Agreement by and between Bank and Grantor dated as of the date hereof and (b) that certain Export-Import Bank Loan and Security Agreement by and between Bank and Grantor dated as of the date hereof (as each of the same may be amended, modified or supplemented from time to time, collectively, the "Loan Agreement"; capitalized terms used herein are used as defined in the Loan Agreement). Bank is willing to make the Loans to Grantor, but only upon the condition, among others, that Grantor shall grant to Bank a security interest in its Copyrights, Trademarks, Patents, and Mask Works (as each term is described below) to secure the obligations of Grantor under the Loan Agreement.

B. Pursuant to the terms of the Loan Agreement, Grantor has granted to Bank a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

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 Grantor's obligations under the Loan Agreement, Grantor hereby represents, warrants, covenants and agrees as follows:

### AGREEMENT

1. Grant of Security Interest. To secure Grantor's obligations under the Loan Agreement, Grantor grants and pledges to Bank a security interest in all of Grantor's right, title and interest in, to and under its intellectual property (all of which shall collectively be called the "Intellectual Property Collateral"), including, without limitation, the following:

(a) Any and all copyright rights, copyright applications, copyright registrations and like protections in each work of authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held, including without limitation those set forth on Exhibit A attached hereto (collectively, the "Copyrights");

(b) Any and all trade secrets, and any and all intellectual property rights in computer software and computer software products now or hereafter existing, created, acquired or held;

(c) Any and all design rights that may be available to Grantor now or hereafter existing, created, acquired or held;

(d) All patents, patent applications and like protections including, without limitation, improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the

**PATENT**

**REEL: 031282 FRAME: 0692**

same, including without limitation the patents and patent applications set forth on Exhibit B attached hereto (collectively, the "Patents");

(e) Any trademark and servicemark rights, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of Grantor connected with and symbolized by such trademarks, including without limitation those set forth on Exhibit C attached hereto (collectively, the "Trademarks");

(f) All mask works or similar rights available for the protection of semiconductor chips, now owned or hereafter acquired, including, without limitation those set forth on Exhibit D attached hereto (collectively, the "Mask Works");

(g) Any and all claims for damages by way of past, present and future infringements of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(h) All licenses or other rights to use any of the Copyrights, Patents, Trademarks, or Mask Works and all license fees and royalties arising from such use to the extent permitted by such license or rights;

(i) All amendments, extensions, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works; and

(j) All proceeds and products of the foregoing, including, without limitation, all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

2. Recordation. Grantor authorizes 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 Bank.

3. Loan Documents. This Agreement has been entered into pursuant to and in conjunction with the Loan Agreement, which is hereby incorporated by reference. The provisions of the Loan Agreement shall supersede and control over any conflicting or inconsistent provision herein. The rights and remedies of Bank with respect to the Intellectual Property Collateral are as provided by the Loan Agreement and related documents, and nothing in this Agreement shall be deemed to limit such rights and remedies.

4. Execution in Counterparts. 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. Successors and Assigns. This Agreement will be binding on and shall inure to the benefit of the parties hereto and their respective successors and assigns.

6. Governing Law. 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 Commonwealth of Massachusetts, without giving effect to any choice or conflict of law provision or rule (whether of the Commonwealth of Massachusetts or any other jurisdiction).

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.


GRANTOR:

Address of Grantor:

7735 Old Georgetown Road, Suite 500  
Bethesda, Maryland 20814

Attn: \_\_\_\_\_

KOOLSPAN, INC.

By:   
Name: Ryan Smith  
Title: CEO and President

BANK:

Address of Bank:

275 Grove Street, Suite 2-200  
Newton, Massachusetts 02466

Attn: Ms. Lauren Cole

SILICON VALLEY BANK

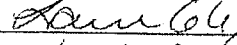
By:   
Name: Lauren Cole  
Title: Vice President

EXHIBIT A

Copyrights

Description

Registration/  
Application  
Number

Registration/  
Application  
Date

NONE

**EXHIBIT B**

**Patents**

| <u>Description</u>  | <u>Registration/<br/>Application<br/>Number</u> | <u>Registration/<br/>Application<br/>Date</u> |
|---|---|---|
| Localized Network Authentication and Security Using Tamper-Resistant Keys | 10/679,371<br>(U.S. 7,325,134)                  | 10/7/2003<br>1/29/2008                        |
| Self-Managed Network Access Using Localized Access Management             | 10/679,472<br>(U.S. 7,574,731)                  | 10/7/2003<br>8/11/2009                        |
| Shared Network Access Using Different Access Keys                         | 10/679,268<br>(U.S. 7,607,015)                  | 10/7/2003<br>10/20/2009                       |
| Subnet Box  | 10/935,123<br>(U.S. 7,934,005)                  | 9/8/2004<br>4/26/2011                         |
| Mass Subscriber Management  | 10/964,755<br>(U.S. 7,325,133)                  | 10/15/2004<br>1/29/2008                       |
| Remote Secure Authorization   | 11/001,084<br>(U.S. 7,827,409)                  | 12/2/2004<br>11/2/2010                        |
| Automatic Hardware-Enabled Virtual Private Network System                 | 11/001,123<br>(U.S. 7,725,933)                  | 12/2/2004<br>5/25/2010                        |
| System And Method Of Per-Packet Keying                                    | 11/763,843<br>(U.S. 7,913,085)                  | 6/15/2007<br>3/22/2011                        |
| System And Method Of Creating And Sending Broadcast And Multicast Data    | 11/763,854<br>(U.S. 7,907,735)                  | 6/15/2007<br>3/15/2011                        |
| System for and Method of Auto-Registration with Cryptographic Modules     | 12/324,471<br>(U.S. 8,364,978)                  | 11/26/2008<br>1/29/2013                       |
| Self-Management Network Access Using Localized Access Management          | 12/539,075<br>(U.S. 7,954,136)                  | 8/11/2009<br>5/31/2011                        |
| Systems And Methods For Adaptive Multi-Rate Protocol Enhancement          | 12/028,370<br>(20090204393)                     | 2/8/2008                                      |
| Secure Mobile Telephony   | 11/951,202<br>(20090122984)                     | 12/5/2007                                     |
| System for and Method of Cryptographic Provisioning                       | 12/324,505                                      | 11/26/2008                                    |



|   |                             |           |
|---|-----------------------------|-----------|
|   | (20090169013)               |           |
| System for and Method of Remote Secure Backup       | 12/533,778<br>(20100031063) | 7/31/2009 |
| System And Method Of Encrypted Media Encapsulation  | 12/860,205<br>(20110044453) | 8/20/2010 |
| System for and Method of Cryptographic Provisioning | 12/109,883<br>(20090268902) | 4/25/2008 |
| ONE VAULT VOICE ENCRYPTION                          | 13/044,590<br>(20110222688) | 3/10/2011 |

| <u>Description</u>   | <u>Registration/<br/>Application<br/>Number</u> | <u>Registration/<br/>Application<br/>Date</u> |
|--|---|---|
| Network Cryptography System and Method                                       | 11/724,153<br>(7,886,146)                       | 3/15/2007<br>2/8/2011                         |
| Localized Network Authentication and Security Using<br>Tamper-Resistant Keys | 11/955,864<br>(7,853,788)                       | 12/13/2007<br>12/14/2010                      |
| Localized Network Authentication And Security Using<br>Tamper-Resistant Keys | 12/942,641<br>(8,301,891)                       | 11/9/2010<br>10/30/2012                       |
| System And Method Of Creating And Sending Broadcast<br>And Multicast Data    | 13/047,384<br>(8,345,875)                       | 3/14/2011<br>1/1/2013                         |
| Subnet Box   | 13/093,323<br>(8,316,142)                       | 4/25/2011<br>11/20/2012                       |
| Mass Subscriber Management   | 12/882,724<br>(8,515,078)                       | 9/15/2010<br>8/20/2013                        |
| Remote Secure Authorization  | 12/890,023<br>(2011/0016323)                    | 9/24/2010<br>1/20/2011                        |

|   |                              |                         |
|---|------------------------------|-------------------------|
| System And Method Of Per-Packet Keying                                    | 13/026,764<br>(2011/0138170) | 2/14/2011<br>6/9/2011   |
| System And Method Of Creating And Sending Broadcast And Multicast Data    | 13/716,592<br>(2013/012491)  | 12/17/2012<br>5/16/2013 |
| Localized Network Authentication And Security Using Tamper-Resistant Keys | 13/626,292<br>(2013/0031620) | 9/25/2012<br>1/31/2013  |
| Mass Subscriber Management  | 11/955,855<br>(2008/0152140) | 12/13/2007<br>6/26/2008 |

#### International Applications

| Foreign Appl'n Number | Title  | Filing         |
|-----------------------|--|----------------|
| PCT/US07/14459        | System And Method Of Per-Packet Keying ("Key Offsets")                 | Jun. 21, 2007  |
| PCT/US07/14472        | System And Method Of Creating And Sending Broadcast And Multicast Data | Jun. 21, 2007  |
| PCT/US07/026441       | Secure Mobile Telephony  | Dec. 28, 2007. |
| PCT/US08/084998       | System for and Method of Cryptographic Provisioning                    | Nov. 26, 2008  |
| PCT/US08/64970        | Systems and Methods for Adaptive Multi-Rate Protocol Enhancement       | 28-May-08      |
| PCT/US08/085006       | System for and Method of Auto Registration with Cryptographic Modules  | Nov. 26, 2008  |
| PCT/US09/52458        | System for and Method of Remote Secure Backup                          | Jul. 31, 2009  |
| 2009/14024 - GCC      | System For And Method Of Remote Secure Backup                          | 1-Aug-09       |
| 07835848.8 - EP       | System And Method Of Creating And Sending Broadcast And Multicast Data | 1-Jun-07       |
| 07809755.7 - EP       | System And Method Of Per-Packet Keying                                 | 1-Jun-07       |
| 202726 - IL           | System And Method Of Creating And Sending Broadcast And Multicast Data | 1-Jun-07       |

|                 |  |                |
|-----------------|--|----------------|
| 202725 - IL     | Network Security Using Offset Keys                                     | 1-Jun-07       |
| 2,690,755 - CA  | System And Method Of Per-Packet Keying                                 | 1-Jun-07       |
| 2,690,778 - CA  | System And Method Of Creating And Sending Broadcast And Multicast Data | 1-Jun-07       |
| 2,705,707 - CA  | Secure Mobile Telephony  | Dec. 28, 2007. |
| 205754 - IL     | Secure Mobile Telephony  | Dec. 28, 2007. |
| 07863280.9 - EP | Secure Mobile Telephony  | Dec. 28, 2007. |
| 2714578 - CA    | Systems and Methods for Adaptive Multi-Rate Protocol Enhancement       | 28-May-08      |
| 08756365.6 - EP | Systems and Methods for Adaptive Multi-Rate Protocol Enhancement       | 28-May-08      |
| 207465 - IL     | Systems and Methods for Adaptive Multi-Rate Protocol Enhancement       | 28-May-08      |
| PCT/US10/46155  | System And Method Of Encrypted Media Encapsulation                     | Aug. 20, 2010  |
| 08876863.5 - EP | System For And Method Of Cryptographic Provisioning                    | Nov. 26, 2008  |
| 205990 - IL     | System For And Method Of Cryptographic Provisioning                    | Nov. 26, 2008  |
| 08855603.0 - EP | System For And Method Of Cryptographic Provisioning                    | Nov. 26, 2008  |
| 2,706,862 - CA  | System For And Method Of Cryptographic Provisioning                    | Nov. 26, 2008  |
| 2,707,232 - CA  | System For And Method Of Cryptographic Provisioning                    | Nov. 26, 2008  |
| 205991 - IL     | System For And Method Of Auto-Registration With Cryptographic Modules  | Nov. 26, 2008  |
| 2,732,006 - CA  | System For And Method Of Remote Secure Backup                          | 31-Jul-09      |
| 210909 - IL     | System For And Method Of Remote Secure Backup                          | 31-Jul-09      |
| 11101726.6 - HK | Secure Mobile Telephony  | 2/22/2011      |
| 11102194.7 - HK | System For And Method Of Cryptographic Provisioning                    | 3/4/2011       |
| 11102384.7 - HK | System For And Method Of Cryptographic Provisioning                    | 3/9/2011       |
| 11104299.7 - HK | Systems And Methods For Adaptive Multi-Rate Protocol Enhancement       | 5/28/2008      |

|                     |  |           |
|---------------------|--|-----------|
| 12108231.8 - HK     | System And Method Of Encrypted Media Encapsulation | 8/29/2012 |
| 217979 - IL         | System And Method Of Encrypted Media Encapsulation | 8/20/2010 |
| 10810656.8 - EP     | System And Method Of Encrypted Media Encapsulation | 8/20/2010 |
| 2770331             | System And Method Of Encrypted Media Encapsulation | 8/20/2010 |
| PCT/US11/27821 - EP | ONE VAULT VOICE ENCRYPTION                         | 3/10/2011 |

EXHIBIT C

Trademarks

| <u>Description</u>  | <u>Registration/<br/>Application<br/>Number</u> | <u>Registration/<br/>Application<br/>Date</u> |
|---------------------|---|---|
| One Vault Messenger | 4034578   | October 4, 2011                               |
| Trustchip           | 3482095   | August 5, 2008                                |
| Koolspan            | 2952255   | May 17, 2005                                  |
| One Vault Voice     | 4097518   | February 14, 2012                             |

EXHIBIT D

Mask Works

Description

Registration/  
Application  
Number

Registration/  
Application  
Date

NONE

1589545.2