

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

Assignment ID: PAT1431683

|                              |                              |
|------------------------------|------------------------------|
| <b>SUBMISSION TYPE:</b>      | NEW ASSIGNMENT               |
| <b>NATURE OF CONVEYANCE:</b> | RELEASE OF SECURITY INTEREST |

**CONVEYING PARTY DATA**

| Name  | Execution Date |
|---|----------------|
| THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A. | 07/31/2024     |

**RECEIVING PARTY DATA**

|                          |                                      |
|--------------------------|--------------------------------------|
| <b>Company Name:</b>     | CALAMP CORP.                         |
| <b>Street Address:</b>   | 15635 ALTON PARKWAY                  |
| <b>Internal Address:</b> | SUITE 250                            |
| <b>City:</b>             | IRVINE                               |
| <b>State/Country:</b>    | CALIFORNIA                           |
| <b>Postal Code:</b>      | 92618                                |
| <b>Company Name:</b>     | CALAMP WIRELESS NETWORKS CORPORATION |
| <b>Street Address:</b>   | 15635 ALTON PARKWAY                  |
| <b>Internal Address:</b> | SUITE 250                            |
| <b>City:</b>             | IRVINE                               |
| <b>State/Country:</b>    | CALIFORNIA                           |
| <b>Postal Code:</b>      | 92618                                |
| <b>Company Name:</b>     | SYNOVIA SOLUTIONS LLC                |
| <b>Street Address:</b>   | 15635 ALTON PARKWAY                  |
| <b>Internal Address:</b> | SUITE 250                            |
| <b>City:</b>             | IRVINE                               |
| <b>State/Country:</b>    | CALIFORNIA                           |
| <b>Postal Code:</b>      | 92618                                |

**PROPERTY NUMBERS Total: 15**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 16862977 |
| Application Number: | 17713867 |
| Application Number: | 18104171 |
| Application Number: | 17826574 |
| Application Number: | 17558098 |
| Application Number: | 17698318 |
| Application Number: | 17335619 |

PATENT

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 18450346 |
| Application Number: | 18229014 |
| Application Number: | 17578820 |
| Application Number: | 17848965 |
| Application Number: | 17690483 |
| Application Number: | 17826694 |
| Application Number: | 17826698 |
| Application Number: | 63579405 |

**CORRESPONDENCE DATA**

**Fax Number:** 2054886267  
*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:** 2055218267  
**Email:** devans@bradley.com  
**Correspondent Name:** Donita Evans  
**Address Line 1:** 1819 Fifth Avenue North  
**Address Line 4:** Birmingham, ALABAMA 35203

|                                |               |
|--------------------------------|---------------|
| <b>ATTORNEY DOCKET NUMBER:</b> | 300409-401002 |
| <b>NAME OF SUBMITTER:</b>      | Donita Evans  |
| <b>SIGNATURE:</b>              | Donita Evans  |
| <b>DATE SIGNED:</b>            | 08/15/2024    |

**Total Attachments: 32**

source=CalAmp - Patent Termination and Release of Security Interest (Executed)#page1.tiff  
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**TERMINATION AND RELEASE OF SECURITY INTEREST  
IN PATENTS**

This **TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENTS**, dated as of July 31, 2024 (“Release”), is made by THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A. (“BNY”), not in its individual or corporate capacity, but solely in its capacity as the U.S. Collateral Agent (the “U.S. Collateral Agent”) for the Notes Secured Parties under the Indenture Documents and THE BANK OF NEW YORK MELLON (“BNYM”), not in its individual or corporate capacity, but solely in its capacity as the UK Collateral Agent (the “UK Collateral Agent” and together with the U.S. Collateral Agent, the “Collateral Agents”) for the Notes Secured Parties under the Indenture Documents, in favor of CalAmp Corp., CalAmp Wireless Networks Corporation, and Synovia Solutions LLC (collectively, the “U.S. Grantors”), and Tracker Network (UK) Limited (“Tracker UK” and together with the U.S. Grantors, each a “Grantor” and collectively, the “Grantors”).

**WHEREAS**, pursuant to (i) that certain *Collateral Agreement*, dated as of December 15, 2023 as among the U.S. Collateral Agent and each Grantor party thereto and the other parties party thereto, as modified by that certain *Assumption Agreement*, dated as of February 28, 2024, executed and delivered by LoJack Global LLC in favor of the U.S. Collateral Agent (as further amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Collateral Agreement”) and (ii) that certain *Indenture*, dated as of July 20, 2018 (as amended and supplemented by that certain *Supplemental Indenture*, dated as of December 15, 2023, as further amended by that certain *First Supplemental Indenture*, dated as of February 28, 2024, and as further amended, restated, amended and restated, supplemented, restructured or otherwise modified from time to time, the “Indenture”), by and among CalAmp Corp. (the “Company”), as issuer, BNY, as Trustee and U.S. Collateral Agent, and BNYM, as the UK Collateral Agent, each Grantor granted to the U.S. Collateral Agent and the UK Collateral Agent, as applicable, for the benefit of the Notes Secured Parties, a security interest in, among other property, certain intellectual property of each Grantor, and agreed as a condition thereof to execute a Patent Security Agreement for recording with the United States Patent and Trademark Office (the “USPTO”);

**WHEREAS**, pursuant to that certain *Patent Security Agreement*, dated as of December 15, 2023, by and between each U.S. Grantor and BNY, not in its individual or corporate capacity, but solely in its capacity as the U.S. Collateral Agent under the Indenture Documents (the “2023 Patent Security Agreement”), each U.S. Grantor granted to the U.S. Collateral Agent, for the ratable benefit of the Notes Secured Parties, a Lien on and security interest in (collectively, together with the lien on and security interest in the Patent Collateral granted under the Collateral Agreement, the “U.S. Security Interest”) all of such U.S. Grantor’s right, title and interest in, to, and under the registered Patents (as defined in the 2023 Patent Security Agreement) and Patents for which applications are pending in the USPTO, including, but not limited to, the foregoing listed on Schedule A attached hereto, and including all Proceeds of such Patents (the “2023 Patent Collateral”), as collateral security for the prompt and complete payment and performance when due (whether at the stated maturity, by acceleration or otherwise) of all Secured Obligations;

**WHEREAS**, the 2023 Patent Security Agreement was recorded with the USPTO on December 18, 2023, at Reel: 066062, Frame: 0303;

**WHEREAS**, pursuant to that certain *Patent Security Agreement*, dated as of February 28, 2024, by and between Tracker UK and BNYM, not in its individual or corporate capacity, but solely in its capacity as the UK Collateral Agent under the Indenture Documents (the “2024 Patent Security Agreement” and, together with the 2023 Patent Security Agreement, the “Patent Security Agreements”), Tracker UK granted to the UK Collateral Agent, for the ratable benefit of the Notes Secured Parties, a Lien on and security interest in (collectively, together with the lien on and security interest in the Patent Collateral granted under the Collateral Agreement, the “UK Security Interest” and together with the U.S. Security Interest, the

“Security Interest”) all of Tracker UK’s right, title and interest in, to, and under the registered Patents (as defined in the 2024 Patent Security Agreement) and Patents for which applications are pending in the USPTO, including, but not limited to, the foregoing listed on Schedule A attached hereto, and including all Proceeds of such Patents (the “2024 Patent Collateral” and together with the 2023 Patent Collateral, the “Patent Collateral”), as collateral security for the prompt and complete payment and performance when due (whether at the stated maturity, by acceleration or otherwise) of all Secured Obligations;

**WHEREAS**, the 2024 Patent Security Agreement was recorded with the USPTO on February 29, 2024, at Reel: 066707, Frame: 0389;

**WHEREAS**, pursuant to paragraph 20 of the *Findings of Fact, Conclusions of Law, and Order (I) Approving the Disclosure Statement for, and Confirming the Joint Prepackaged Chapter 11 Plan of Reorganization of CalAmp Corp. and Its Debtor Affiliates Pursuant to Chapter 11 of the Bankruptcy Code and (II) Granting Related Relief* (the “Confirmation Order”) entered on July 11, 2024 by the United States Bankruptcy Court for the District of Delaware, Section 9.7 of the *Joint Prepackaged Chapter 11 Plan of Reorganization of CalAmp Corp. and its Debtor Affiliates Pursuant to Chapter 11 of the Bankruptcy Code* (as amended, supplemented or otherwise modified from time to time, the “Plan”), and the Officer’s Certificate dated July 29, 2024 delivered by the Company to BNY and BNYM, respectively, pursuant to sections 10.02(B), 12.03(B), 13.02(A), and 13.03 of the Indenture, the Security Interest is released and discharged, and all of the right, title, and interest relating to the Security Interest shall revert to the respective Grantor without any further action of any party.

**NOW, THEREFORE**, at the request of each Grantor, to evidence the release, discharge, and reversion of the Security Interest under the Confirmation Order and the Plan, the Collateral Agents, respectively, on behalf of the Notes Secured Parties, without representation, warranty, or recourse of any kind or nature, and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and each Grantor agree as follows:

**SECTION 1. Defined Terms.** All capitalized terms used herein but not otherwise defined herein have the meanings given to them in the Indenture, Collateral Agreement, Patent Security Agreements, and any other Indenture Documents, as applicable.

**SECTION 2. Release of Security Interest in Patent Collateral.**

(a) The U.S. Collateral Agent, on behalf of itself, its successors, legal representatives and assigns, and the Notes Secured Parties, without representation, warranty, or recourse of any kind or nature, hereby unconditionally terminates, cancels, discharges, and releases its Security Interest in the 2023 Patent Collateral, and any right, title or interest of the U.S. Collateral Agent in such 2023 Patent Collateral shall hereby cease and become void.

(b) The UK Collateral Agent, on behalf of itself, its successors, legal representatives, and assigns, and the Notes Secured Parties, without representation, warranty, or recourse of any kind or nature, hereby unconditionally terminates, cancels, discharges, and releases its Security Interest in the 2024 Patent Collateral, and any right, title or interest of the UK Collateral Agent in such 2024 Patent Collateral shall hereby cease and become void.

(c) If and to the extent that the U.S. Collateral Agent has acquired any right, title or interest in and to the 2023 Patent Collateral, the U.S. Collateral Agent, on behalf of itself, its successors, legal representatives, and assigns, and the Notes Secured Parties, without representation, warranty, or recourse of any kind or nature, hereby unconditionally re-transfers, re-conveys, and re-assigns such right, title or interest to each U.S. Grantor, respectively;

(d) If and to the extent that the UK Collateral Agent has acquired any right, title, or interest in and to the 2024 Patent Collateral, the UK Collateral Agent, on behalf of itself, its successors, legal representatives, and assigns, and the Notes Secured Parties, without representation, warranty, or recourse of any kind or nature, hereby unconditionally re-transfers, re-conveys, and re-assigns such right, title or interest to Tracker (UK); and

(e) To the extent the Patent Security Agreements are recorded with the USPTO, authorizes each Grantor or its designee to record this Release with the USPTO at each Grantor's sole expense.

**SECTION 3. Choice of Law.** This Release is made under and shall be governed by and construed in accordance with the laws of the State of New York applicable to contracts made and to be performed entirely within such State, without regard to conflicts of laws principles.

**SECTION 4. Further Assurances.** Each of the Collateral Agents, respectively, agrees to duly execute, acknowledge, procure and deliver any further documents and to do such other acts as may be reasonably necessary to effect the release of the Security Interest contemplated hereby, in each case at the Grantors' sole expense.

**SECTION 5. Recordation of Release.** Each of the Collateral Agents, respectively, hereby authorizes and requests that the Patent Commissioner in the USPTO, and any other necessary United States government officer, record this Release; it being understood that such recordation shall be at the Grantors' sole expense.

**SECTION 6. Capacities of BNY and BNYM.** Each of BNY and BNYM, respectively, is executing this Release not in its individual or corporate capacity but solely in its capacity as the U.S. Collateral Agent or the UK Collateral Agent, as applicable, under the Indenture Documents. In acting hereunder, the Collateral Agents shall be entitled to all of the rights, privileges, immunities, and indemnities granted to the Collateral Agents, as applicable, under the Indenture, the Collateral Agreement, the Patent Security Agreements, and all other Indenture Documents, as if such rights, privileges, immunities, and indemnities were expressly set forth herein.

**SECTION 7. Indemnification.** The Company hereby confirms that it will indemnify BNY and BNYM, in each of their respective capacities under the Indenture Documents, to the fullest extent provided in the Indenture Documents with respect to any loss, liability, claim, or expenses (including attorneys' fees and expenses), relating to or arising out of this Release or the Company's direction set forth in the Officer's Certificate dated July 29, 2024.

**SECTION 8. Counterparts.** This Release may be executed by one or more of the parties to this Release on any number of separate counterparts, and all of said counterparts taken together shall be deemed to constitute one and the same instrument. Delivery of an executed signature page of this Release by facsimile or other electronic mail transmission shall be effective as delivery of a manually executed counterpart hereof. The words "execution," "signed," "signature," and words of like import in this Release shall be deemed to include electronic signatures or the keeping of records in electronic form, each of which shall be of the same legal effect, validity or enforceability as a manually executed signature, to the extent and as provided for in any applicable law, including the Federal Electronic Signatures in Global and

National Commerce Act, the New York State Electronic Signatures and Records Act, or any other similar state laws based on the Uniform Electronic Transactions Act.

*[Signatures on following page]*

**IN WITNESS WHEREOF**, each of the Collateral Agents, on behalf of itself, its respective successors, legal representatives and assigns, and the Notes Secured Parties, has caused this *Termination and Release of Security Interest in Patents* to be duly executed as of the date first set forth above.

**THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A.,**  
as U.S. Collateral Agent

By: Reginald Brewer  
Print Name: Reginald Brewer  
Title: Vice President, Corporate Trust

**THE BANK OF NEW YORK MELLON,**  
as UK Collateral Agent

By: \_\_\_\_\_  
Print Name: Alex T. Chang  
Title: Senior Vice President, Default Administration Group




**IN WITNESS WHEREOF**, each of the Collateral Agents, on behalf of itself, its respective successors, legal representatives and assigns, and the Notes Secured Parties, has caused this *Termination and Release of Security Interest in Patents* to be duly executed as of the date first set forth above.

**THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A.,**  
as U.S. Collateral Agent

By: \_\_\_\_\_  
Print Name: Reginald Brewer  
Title: Vice President, Corporate Trust

**THE BANK OF NEW YORK MELLON,**  
as UK Collateral Agent

By:  \_\_\_\_\_  
Print Name: Alex T. Chang  
Title: Senior Vice President, Default Administration Group

Alex Chang  
2024-07-30  
16:49-04:00

**Schedule A**

**Patents and Patent Applications**

| <b>Country</b> | <b>Application Status</b> | <b>Title</b>   | <b>Application Number</b> | <b>Filing Date</b> | <b>Patent Number</b> | <b>Issue Date</b> | <b>Holder / Assignee</b>             |
|----------------|---------------------------|--|---------------------------|--------------------|----------------------|-------------------|--------------------------------------|
| US             | Issued                    | MULTIBAND ANTENNA INCLUDING ANTENNA ELEMENTS CONNECTED BY A CHOKING CIRCUIT  | 12/345492                 | 12/29/2008         | 8416138              | 04/09/2013        | CALAMP CORP.                         |
| US             | Issued                    | METHODS AND SYSTEMS OF MAINTAINING AND MONITORING VEHICLE TRACKING DEVICE  | 12/366790                 | 02/06/2009         | 8650098              | 02/11/2014        | CALAMP CORP.                         |
| US             | Issued                    | APPLICATION PROCESS IN COMMUNICATION SYSTEM USING CENTRAL PROCESSOR FOR FORWARDING REQUEST TO DESTINATION PROCESSOR BASED ON CONNECTION STATUS | 12/336215                 | 12/16/2008         | 8001174              | 08/16/2011        | CALAMP CORP.                         |
| US             | Issued                    | HIGH ENTROPY RANDOM BIT SOURCE   | 12/380507                 | 02/27/2009         | 9335971              | 05/10/2016        | CALAMP CORP.                         |
| US             | Issued                    | HIGH-EFFICIENCY TRANSPARENT MICROWAVE ANTENNAS   | 10/198773                 | 07/18/2002         | 6933891              | 08/23/2005        | CALAMP CORP.                         |
| US             | Issued                    | COMPACT BIDIRECTIONAL REPEATERS FOR WIRELESS COMMUNICATION SYSTEMS   | 10/640224                 | 08/12/2003         | 7009573              | 03/07/2006        | CALAMP CORP.                         |
| US             | Issued                    | METHOD AND APPARATUS TO DETERMINE MOBIL USER'S LOCATION IN A WIRELESS COMMUNICATION NETWORK  | 10/201728                 | 07/23/2002         | 6788945              | 09/07/2004        | CALAMP WIRELESS NETWORKS CORPORATION |
| US             | Issued                    | METHOD AND APPARATUS FOR PROVIDING INFORMATION PERTAINING TO VEHICLES LOCATED ALONG A PREDETERMINED TRAVEL ROUTE                               | 10/306679                 | 11/27/2002         | 6832153              | 12/14/2004        | CALAMP WIRELESS NETWORKS CORPORATION |
| US             | Issued                    | TIME-SENSITIVE ARTICLE TRACKING DEVICE   | 10/302582                 | 11/21/2002         | 6850839              | 02/01/2005        | CALAMP WIRELESS NETWORKS             |

|    |        |   |           |            |          |            |   |
|----|--------|---|-----------|------------|----------|------------|---|
|    |        |   |           |            |          |            | CORPORATI<br>ON                                   |
| US | Issued | VEHICLE PASSIVE ALERT<br>SYSTEM AND METHOD  | 10/395841 | 03/24/2003 | 7065445  | 06/20/2006 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| US | Issued | METHOD AND SYSTEM<br>FOR TRACKING MOBILE<br>TELEMETRY DEVICES   | 10/758770 | 01/16/2004 | 7460871  | 12/02/2008 | CALAMP<br>CORP.                                   |
| US | Issued | SYSTEMS AND METHODS<br>FOR<br>VIRTUAL IGNITION<br>DETECTION   | 12/917234 | 11/01/2010 | 8489271  | 07/16/2013 | CALAMP<br>CORP.                                   |
| US | Issued | SYSTEMS AND METHODS<br>FOR<br>VIRTUAL IGNITION<br>DETECTION   | 13/919349 | 06/17/2013 | 9002538  | 04/07/2015 | CALAMP<br>CORP.                                   |
| US | Issued | SYSTEMS AND METHODS<br>FOR COLLECTING<br>INFORMATION FROM<br>VEHICLE DEVICES VIA A<br>VEHICLE<br>DATA BUS | 13/332848 | 12/21/2011 | 8812173  | 08/19/2014 | CALAMP<br>CORP.                                   |
| US | Issued | SYSTEMS AND METHODS<br>FOR COLLECTING<br>INFORMATION FROM<br>VEHICLE DEVICES VIA A<br>VEHICLE<br>DATA BUS | 14/318287 | 06/27/2014 | 9171460  | 10/27/2015 | CALAMP<br>CORP.                                   |
| US | Issued | SYSTEMS AND METHODS<br>FOR 3-AXIS<br>ACCELEROMETER<br>CALIBRATION   | 13/622844 | 09/19/2012 | 9217757  | 12/22/2015 | CALAMP<br>CORP.                                   |
| US | Issued | REMOTELY MANAGED<br>DATA RADIOS INCLUDING<br>REMOTE MANAGEMENT<br>CAPABILITIES                            | 14/307064 | 06/17/2014 | 9271190  | 02/23/2016 | CALAMP<br>CORP.                                   |
| US | Issued | MULTIPLE NETWORK<br>MODE<br>SELECTION DEVICES   | 13/560690 | 07/27/2012 | 10219205 | 02/26/2019 | CALAMP<br>CORP.                                   |
| US | Issued | MULTIPLE NETWORK<br>MODE SELECTION<br>DEVICES   | 16/284835 | 02/25/2019 | 10932186 | 02/23/2021 | CALAMP<br>CORP.                                   |
| US | Issued | MULTIPLE NETWORK<br>MODE SELECTION<br>DEVICES   | 17/176541 | 02/16/2021 | 11751129 | 09/05/2023 | CALAMP<br>CORP.                                   |

|    |        |  |            |            |                    |            |              |
|----|--------|--|------------|------------|--------------------|------------|--------------|
| US | Issued | SYSTEMS AND METHODS FOR LOCATION REPORTING OF DETECTED EVENTS IN VEHICLE OPERATION | 13/729702  | 12/28/2012 | 9406222            | 08/02/2016 | CALAMP CORP. |
| US | Issued | SYSTEMS AND METHODS FOR LOCATION REPORTING OF DETECTED EVENTS IN VEHICLE OPERATION | 15/223094  | 07/29/2016 | 10102689           | 10/16/2018 | CALAMP CORP. |
| DE | Issued | SYSTEMS AND METHODS FOR EFFICIENT CHARACTERIZATION OF ACCELERATION EVENTS          | 13856216.0 | 08/14/2013 | 60201302<br>7311.1 | 09/27/2017 | CALAMP CORP. |
| US | Issued | SYSTEMS AND METHODS FOR EFFICIENT CHARACTERIZATION OF ACCELERATION EVENTS          | 13/683446  | 11/21/2012 | 10107831           | 10/23/2018 | CALAMP CORP. |
| FR | Issued | SYSTEMS AND METHODS FOR EFFICIENT CHARACTERIZATION OF ACCELERATION EVENTS          | 13856216.0 | 08/14/2013 | 2923277            | 09/27/2017 | CALAMP CORP. |
| GB | Issued | SYSTEMS AND METHODS FOR EFFICIENT CHARACTERIZATION OF ACCELERATION EVENTS          | 13856216.0 | 08/14/2013 | 2923277            | 09/27/2017 | CALAMP CORP. |
| IE | Issued | SYSTEMS AND METHODS FOR EFFICIENT CHARACTERIZATION OF ACCELERATION EVENTS          | 13856216.0 | 08/14/2013 | 2923277            | 09/27/2017 | CALAMP CORP. |
| US | Issued | SYSTEMS AND METHODS FOR LOW LATENCY 3-AXIS ACCELEROMETER CALIBRATION               | 13/770917  | 02/19/2013 | 10466269           | 11/05/2019 | CALAMP CORP. |
| US | Issued | SYSTEMS AND METHODS FOR LOW LATENCY 3-AXIS ACCELEROMETER CALIBRATION               | 16/673241  | 11/04/2019 | 11480587           | 10/25/2022 | CALAMP CORP. |
| EP | Issued | SYSTEMS AND METHODS FOR LOW LATENCY 3-AXIS ACCELEROMETER CALIBRATION               | 19159016.5 | 08/14/2013 | 3543841            | 07/26/2023 | CALAMP CORP. |
| DE | Issued | SYSTEMS AND METHODS FOR LOW LATENCY 3-AXIS ACCELEROMETER CALIBRATION               | 13875407.2 | 08/14/2013 | 60201305<br>2057.7 | 03/06/2019 | CALAMP CORP. |
| DE | Issued | SYSTEMS AND METHODS FOR LOW LATENCY 3-AXIS   | 19159016.5 | 08/14/2013 | 60201308<br>4343.0 | 07/26/2023 | CALAMP CORP. |

|    |         |   |              |            |                |            |              |
|----|---------|---|--------------|------------|----------------|------------|--------------|
|    |         | ACCELEROMETER CALIBRATION   |              |            |                |            |              |
| GB | Issued  | SYSTEMS AND METHODS FOR LOW LATENCY 3-AXIS ACCELEROMETER CALIBRATION                  | 13875407.2   | 08/14/2013 | 2959374        | 03/06/2019 | CALAMP CORP. |
| GB | Issued  | SYSTEMS AND METHODS FOR LOW LATENCY 3-AXIS ACCELEROMETER CALIBRATION                  | 19159016.5   | 08/14/2013 | 3543841        | 07/26/2023 | CALAMP CORP. |
| HK | Pending | SYSTEMS AND METHODS FOR LOW LATENCY 3-AXIS ACCELEROMETER CALIBRATION                  | 420200046647 | 08/14/2013 |                |            | CALAMP CORP. |
| IT | Issued  | SYSTEMS AND METHODS FOR LOW LATENCY 3-AXIS ACCELEROMETER CALIBRATION                  | 13875407.2   | 08/14/2013 | 2959374        | 03/06/2019 | CALAMP CORP. |
| IT | Issued  | SYSTEMS AND METHODS FOR LOW LATENCY 3-AXIS ACCELEROMETER CALIBRATION                  | 19159016.5   | 08/14/2013 | 50202300042942 | 07/26/2023 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR 3-AXIS ACCELEROMETER CALIBRATION WITH VERTICAL SAMPLE BUFFERS | 13/770920    | 02/19/2013 | 9459277        | 10/04/2016 | CALAMP CORP. |
| US | Pending | SYSTEMS AND METHODS FOR 3-AXIS ACCELEROMETER CALIBRATION WITH VERTICAL SAMPLE BUFFERS | 16/862977    | 04/30/2020 |                |            | CALAMP CORP. |
| DE | Issued  | SYSTEMS AND METHODS FOR 3-AXIS ACCELEROMETER CALIBRATION WITH VERTICAL SAMPLE BUFFERS | 13875911.3   | 08/14/2013 | 602013040992.7 | 07/25/2018 | CALAMP CORP. |
| GB | Issued  | SYSTEMS AND METHODS FOR 3-AXIS ACCELEROMETER CALIBRATION WITH VERTICAL SAMPLE BUFFERS | 13875911.3   | 08/14/2013 | 2959376        | 07/25/2018 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR   | 14/550639    | 11/21/2014 | 9648579        | 05/09/2017 | CALAMP CORP. |

|    |         |  |                    |            |               |            |              |
|----|---------|--|--------------------|------------|---------------|------------|--------------|
|    |         | DRIVER AND VEHICLE TRACKING  |                    |            |               |            |              |
| US | Issued  | SYSTEMS AND METHODS FOR DRIVER AND VEHICLE TRACKING                                | 15/586131          | 05/03/2017 | 10101163      | 10/16/2018 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR IMPACT DETECTION WITH NOISE ATTENUATION OF A SENSOR SIGNAL | 14/737197          | 06/11/2015 | 10214166      | 02/26/2019 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR IMPACT DETECTION WITH NOISE ATTENUATION OF A SENSOR SIGNAL | 16/883654          | 05/26/2020 | 11292403      | 04/05/2022 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR IMPACT DETECTION WITH NOISE ATTENUATION OF A SENSOR SIGNAL | 17/713867          | 04/05/2022 |               |            | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR DETERMINING VEHICLE OPERATIONAL STATUS                     | 14/719618          | 05/22/2015 | 9644977       | 05/09/2017 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR DETERMINING VEHICLE OPERATIONAL STATUS                     | 15/586122          | 05/03/2017 | 10304264      | 05/28/2019 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR CRASH DETERMINATION  | 15/205385          | 07/08/2016 | 10055909      | 08/21/2018 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR CRASH DETERMINATION  | 16/862985          | 04/30/2020 | 11570529      | 01/31/2023 | CALAMP CORP. |
| US | Pending | SYSTEMS AND METHODS FOR CRASH DETERMINATION  | 18/104171          | 01/31/2023 |               |            | CALAMP CORP. |
| DE | Issued  | SYSTEMS AND METHODS FOR CRASH DETERMINATION  | 6020170560<br>18.9 | 07/05/2017 | 3481674       | 04/13/2022 | CALAMP CORP. |
| EP | Pending | SYSTEMS AND METHODS FOR CRASH DETERMINATION  | 22168024.2         | 04/12/2022 |               |            | CALAMP CORP. |
| HK | Issued  | SYSTEMS AND METHODS FOR CRASH DETERMINATION  | 19132315.3         | 09/13/2022 | 40008482<br>A | 12/16/2022 | CALAMP CORP. |
| GB | Issued  | SYSTEMS AND METHODS FOR CRASH DETERMINATION  | 17824833.2         | 07/05/2017 | 3481674       | 04/13/2022 | CALAMP CORP. |

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| IT | Issued  | SYSTEMS AND METHODS FOR CRASH DETERMINATION                  | 502022000045223 | 07/05/2017 | 3481674   | 04/13/2022 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS CRASH DETERMINATION WITH NOISE FILTERING | 15/241517       | 08/19/2016 | 10395438  | 08/27/2019 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS CRASH DETERMINATION WITH NOISE FILTERING | 16/551465       | 08/26/2019 | 11386723  | 07/12/2022 | CALAMP CORP. |
| US | Pending | SYSTEMS AND METHODS CRASH DETERMINATION WITH NOISE FILTERING | 17/826574       | 05/27/2022 |           |            | CALAMP CORP. |
| EP | Pending | SYSTEMS AND METHODS CRASH DETERMINATION WITH NOISE FILTERING | 17841951.1      | 08/14/2017 |           |            | CALAMP CORP. |
| US | Pending | SYSTEMS AND METHODS FOR DYNAMIC DEVICE PROGRAMMING           | 17/558098       | 12/21/2021 |           |            | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR DYNAMIC DEVICE PROGRAMMING           | 15/828102       | 11/30/2017 | 11206171  | 12/21/2021 | CALAMP CORP. |
| GB | Issued  | SYSTEMS AND METHODS FOR DYNAMIC DEVICE PROGRAMMING           | 2008515.5       | 11/16/2018 | GB2583219 | 03/09/2022 | CALAMP CORP. |
| GB | Issued  | SYSTEMS AND METHODS FOR DYNAMIC DEVICE PROGRAMMING           | 2119025.1       | 12/24/2021 | GB2601428 | 11/23/2022 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR DYNAMIC TELEMATICS MESSAGING         | 16/883648       | 05/26/2020 | 11290556  | 03/29/2022 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR DYNAMIC TELEMATICS MESSAGING         | 17/698318       | 03/18/2022 |           |            | CALAMP CORP. |
| GB | Issued  | SYSTEMS AND METHODS FOR DYNAMIC TELEMATICS MESSAGING         | 2008519.7       | 11/16/2018 | GB2581752 | 06/15/2022 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR RADIO ACCESS INTERFACES              | 15/430400       | 02/10/2017 | 10219117  | 02/26/2019 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR RADIO ACCESS INTERFACES              | 16/284837       | 02/25/2019 | 10645551  | 05/05/2020 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR RADIO ACCESS INTERFACES              | 16/865704       | 05/04/2020 | 11070964  | 07/20/2021 | CALAMP CORP. |

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| US | Issued | SYSTEMS AND METHODS FOR RADIO ACCESS INTERFACES                             | 17/381111 | 07/20/2021 | 11792622 | 10/17/2023 | CALAMP CORP. |
| US | Issued | SYSTEMS AND METHODS FOR TRACKING MULTIPLE COLLOCATED ASSETS                 | 15/373277 | 12/08/2016 | 10473750 | 11/12/2019 | CALAMP CORP. |
| US | Issued | SYSTEMS AND METHODS FOR TRACKING MULTIPLE COLLOCATED ASSETS                 | 16/883658 | 05/26/2020 | 11022671 | 06/01/2021 | CALAMP CORP. |
| US | Issued | SYSTEMS AND METHODS FOR TRACKING MULTIPLE COLLOCATED ASSETS                 | 17/333858 | 05/28/2021 | 11650282 | 05/16/2023 | CALAMP CORP. |
| US | Issued | SYSTEMS AND METHODS FOR REDUCING UNDESIRABLE BEHAVIORS IN RF COMMUNICATIONS | 15/683022 | 08/22/2017 | 10461868 | 10/29/2019 | CALAMP CORP. |
| US | Issued | SYSTEMS AND METHODS FOR REDUCING UNDESIRABLE BEHAVIORS IN RF COMMUNICATIONS | 16/665655 | 10/28/2019 | 10951328 | 03/16/2021 | CALAMP CORP. |
| US | Issued | SYSTEMS AND METHODS FOR SECURE COMMUNICATIONS IN VEHICLE TELEMATICS SYSTEMS | 15/931034 | 05/13/2020 | 11381402 | 07/05/2022 | CALAMP CORP. |
| US | Issued | SYSTEMS AND METHODS FOR FAILSAFE FIRMWARE UPGRADES                          | 15/833350 | 12/06/2017 | 10599421 | 03/24/2020 | CALAMP CORP. |
| US | Issued | SYSTEMS AND METHODS FOR FAILSAFE FIRMWARE UPGRADES                          | 16/826703 | 03/23/2020 | 11436002 | 09/06/2022 | CALAMP CORP. |
| US | Issued | HIBERNATE CONTROL CIRCUITS FOR BATTERY POWER SWITCHING                      | 16/132165 | 09/14/2018 | 11070077 | 07/20/2021 | CALAMP CORP. |
| US | Issued | HIBERNATE CONTROL CIRCUITS FOR BATTERY POWER SWITCHING                      | 17/381104 | 07/20/2021 | 11742693 | 08/29/2023 | CALAMP CORP. |
| US | Issued | SYSTEMS AND METHODS FOR DRIVER SCORING WITH MACHINE                         | 16/029520 | 07/06/2018 | 10392022 | 08/27/2019 | CALAMP CORP. |
| US | Issued | SYSTEMS AND METHODS FOR   | 16/551453 | 08/26/2019 | 11021166 | 06/01/2021 | CALAMP CORP. |



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|    |         | DRIVER SCORING WITH MACHINE   |                  |            |            |            |              |
| US | Pending | SYSTEMS AND METHODS FOR DRIVER SCORING WITH MACHINE LEARNING          | 17/335619        | 06/01/2021 |            |            | CALAMP CORP. |
| CA | Pending | ASSET TRACKER   | 3110747          | 02/24/2021 |            |            | CALAMP CORP. |
| EP | Pending | ASSET TRACKER   | 19855974.2       | 02/26/2021 |            |            | CALAMP CORP. |
|    |         |   |                  |            |            |            | CALAMP CORP. |
| KR | Pending | ASSET TRACKER   | 10-2021-7009587  | 03/31/2021 |            |            | CALAMP CORP. |
| MX | Pending | ASSET TRACKER   | MX/a/2021/002085 | 02/22/2021 |            |            | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR VEHICLE EVENT DETECTION                       | 16/289320        | 02/28/2019 | 11187739   | 11/30/2021 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR VEHICLE EVENT DETECTION                       | 17/538427        | 11/30/2021 | 11733284   | 08/22/2023 | CALAMP CORP. |
| BR | Pending | SYSTEMS AND METHODS FOR VEHICLE EVENT DETECTION                       | BR112021016830-3 | 08/25/2021 |            |            | CALAMP CORP. |
| EP | Pending | SYSTEMS AND METHODS FOR VEHICLE EVENT DETECTION                       | 19916896.4       | 09/21/2021 |            |            | CALAMP CORP. |
| JP | Issued  | SYSTEMS AND METHODS FOR VEHICLE EVENT DETECTION                       | 2021-550196      | 02/28/2019 | 7322163    | 07/28/2023 | CALAMP CORP. |
| MX | Pending | SYSTEMS AND METHODS FOR VEHICLE EVENT DETECTION                       | MX/a/2021/010238 | 08/25/2021 |            |            | CALAMP CORP. |
| ZA | Issued  | SYSTEMS AND METHODS FOR VEHICLE EVENT DETECTION                       | 2021/07226       | 09/27/2021 | 2021/07226 | 08/31/2022 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR DETECTING AN IMPACT EVENT IN A PARKED VEHICLE | 16/748162        | 01/21/2020 | 11472361   | 10/18/2022 | CALAMP CORP. |
| EP | Pending | SYSTEMS AND METHODS FOR DETECTING AN IMPACT EVENT IN A PARKED VEHICLE | 20914848.5       | 08/19/2022 |            |            | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR AUTOMATIC                                     | 16/801750        | 02/26/2020 | 10931099   | 02/23/2021 | CALAMP CORP. |

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|    |         | THRESHOLD SENSING FOR UVLO CIRCUITS IN A MULTI-BATTERY ENVIRONMENT                                     |            |            |          |            |              |
| US | Issued  | SYSTEMS AND METHODS FOR AUTOMATIC THRESHOLD SENSING FOR UVLO CIRCUITS IN A MULTI-BATTERY ENVIRONMENT   | 17/153434  | 01/20/2021 | 11336085 | 05/17/2022 | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR AUTOMATIC THRESHOLD SENSING FOR UVLO CIRCUITS IN A MULTI-BATTERY ENVIRONMENT   | 17/746200  | 05/17/2022 | 11742654 | 08/29/2023 | CALAMP CORP. |
| EP | Pending | SYSTEMS AND METHODS FOR AUTOMATIC THRESHOLD SENSING FOR UVLO CIRCUITS IN A MULTI-BATTERY ENVIRONMENT   | 20921822.1 | 09/21/2022 |          |            | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR IDENTIFYING A VEHICLE PLATFORM USING MACHINE LEARNING ON VEHICLE BUS DATA      | 16/803785  | 02/27/2020 | 11727271 | 08/15/2023 | CALAMP CORP. |
| US | Pending | SYSTEMS AND METHODS FOR IDENTIFYING A VEHICLE PLATFORM USING MACHINE LEARNING ON VEHICLE BUS DATA      | 18/450346  | 08/15/2023 |          |            | CALAMP CORP. |
| EP | Pending | SYSTEMS AND METHODS FOR IDENTIFYING A VEHICLE PLATFORM USING MACHINE LEARNING ON VEHICLE BUS DATA      | 20922318.9 | 09/21/2022 |          |            | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR DELIVERING VEHICLE PARAMETERS TO A REMOTE DEVICE VIA VEHICLE MODULE IDENTITIES | 16/803778  | 02/27/2020 | 11587376 | 02/21/2023 | CALAMP CORP. |
| EP | Pending | SYSTEMS AND METHODS FOR DELIVERING VEHICLE PARAMETERS TO A   | 20922314.8 | 09/22/2022 |          |            | CALAMP CORP. |

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|    |         | REMOTE DEVICE VIA VEHICLE MODULE IDENTITIES   |                   |            |          |            |              |
| US | Issued  | SYSTEMS AND METHODS FOR SWITCHING BETWEEN COMMUNICATION AND NAVIGATION MODES IN A TELEMATICS DEVICE | 16/748147         | 01/21/2020 | 11631284 | 04/18/2023 | CALAMP CORP. |
| EP | Pending | SYSTEMS AND METHODS FOR SWITCHING BETWEEN COMMUNICATION AND NAVIGATION MODES IN A TELEMATICS DEVICE | 20916116.5        | 08/19/2022 |          |            | CALAMP CORP. |
| US | Issued  | SYSTEMS AND METHODS FOR DETECTION OF VEHICLE BUS PROTOCOL USING SIGNAL ANALYSIS                     | 16/800519         | 02/25/2020 | 11539550 | 12/27/2022 | CALAMP CORP. |
| EP | Pending | SYSTEMS AND METHODS FOR DETECTION OF VEHICLE BUS PROTOCOL USING SIGNAL ANALYSIS                     | 20921879.1        | 09/21/2022 |          |            | CALAMP CORP. |
| US | Issued  | TECHNOLOGIES FOR DRIVER BEHAVIOR ASSESSMENT   | 17/180832         | 02/21/2021 | 11713047 | 08/01/2023 | CALAMP CORP. |
| US | Pending | TECHNOLOGIES FOR DRIVER BEHAVIOR ASSESSMENT   | 18/229014         | 08/01/2023 |          |            | CALAMP CORP. |
| EP | Pending | TECHNOLOGIES FOR DRIVER BEHAVIOR ASSESSMENT   | 21756394.9        | 09/21/2022 |          |            | CALAMP CORP. |
| US | Pending | TECHNOLOGIES FOR OVER-THE-AIR UPDATES FOR TELEMATICS SYSTEMS  | 17/578820         | 01/19/2022 |          |            | CALAMP CORP. |
| WO | Pending | TECHNOLOGIES FOR OVER-THE-AIR UPDATES FOR TELEMATICS SYSTEMS  | PCT/US2023/060895 | 01/19/2023 |          |            | CALAMP CORP. |
| US | Issued  | TECHNOLOGIES FOR DYNAMIC TELEMATICS MESSAGE PARSING   | 17/578822         | 01/19/2022 | 11750724 | 09/05/2023 | CALAMP CORP. |
|    |         |   |                   |            |          |            | CALAMP CORP. |
| WO | Pending | TECHNOLOGIES FOR DYNAMIC TELEMATICS MESSAGE PARSING   | PCT/US2023/060896 | 01/19/2023 |          |            | CALAMP CORP. |
| US | Pending | TECHNOLOGIES FOR REDUCING EVENT   | 17/848965         | 06/24/2022 |          |            | CALAMP CORP. |

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|    |         | NOTIFICATIONS IN<br>TELEMATICS SYSTEMS   |                       |            |               |            |                                |
| US | Pending | TECHNOLOGIES FOR<br>DETERMINING<br>DRIVER EFFICIENCY   | 17/690483             | 03/09/2022 |               |            | CALAMP<br>CORP.                |
| US | Pending | TECHNOLOGIES FOR<br>DETERMINING LOCATION<br>OF A TELEMATICS DEVICE<br>DURING COMMUNICATION<br>MODE<br>SWITCHING  | 17/826694             | 05/27/2022 |               |            | CALAMP<br>CORP.                |
| WO | Pending | TECHNOLOGIES FOR<br>DETERMINING LOCATION<br>OF A TELEMATICS DEVICE<br>DURING COMMUNICATION<br>MODE<br>SWITCHING  | PCT/US202<br>3/023655 | 05/26/2023 |               |            | CALAMP<br>CORP.                |
| US | Pending | TECHNOLOGIES FOR<br>SWITCHING<br>BETWEEN<br>COMMUNICATION MODES<br>IN A TELEMATICS DEVICE  | 17/826698             | 05/27/2022 |               |            | CALAMP<br>CORP.                |
| US | Pending | SYSTEM AND METHOD<br>FOR<br>AUTOMATICALLY<br>SELECTING EQUIPMENT<br>PROFILE  | 63/579405             | 08/29/2023 |               |            | CALAMP<br>CORP.                |
| GB | Issued  | SYSTEMS AND METHODS<br>FOR DYNAMIC<br>TELEMATICS MESSAGING   | 2206086.7             | 11/16/2018 | GB260447<br>4 | 11/30/2022 | CALAMP<br>CORP.                |
| CA | Issued  | METHOD OF AND<br>APPARATUS FOR<br>UTILIZING<br>GEOGRAPHICALLY<br>SPREAD CELLULAR RADIO<br>NETWORKS TO<br>SUPPLEMENT MORE<br>GEOGRAPHICALLY<br>LIMITED STOLEN VEHICLE<br>RECOVERY RADIO<br>NETWORKS IN<br>ACTIVATION OF RADIO<br>TRACKING AND<br>RECOVERY OF SUCH | 2485005               | 09/20/2002 | 2485005       | 03/12/2013 | LOJACK<br>CORPORATI<br>ON      |
| US | Issued  | SURFACE ACOUSTIC WAVE<br>RESONATOR FILTER  | 12/586054             | 09/16/2009 | 8339220       | 12/25/2012 | CALAMP<br>CORP.                |
| US | Issued  | DUAL TABLE<br>TEMPERATURE<br>COMPENSATED VOLTAGE<br>CONTROLLED CRYSTAL   | 12/589430             | 10/23/2009 | 8130050       | 03/06/2012 | CALAMP<br>WIRELESS<br>NETWORKS |

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|    |        | OSCILLATOR SYSTEM AND METHOD  |            |            |               |            | CORPORATI<br>ON                                   |
| US | Issued | METHOD OF AND APPARATUS FOR DYNAMICALLY GOEFENCING MOVABLE VEHICLE AND OTHER EQUIPMENT AND THE LIKE   | 09/962956  | 09/25/2001 | 6665613       | 12/16/2003 | CALAMP<br>CORP.                                   |
| ZA | Issued | METHOD OF AND APPARATUS FOR DYNAMICALLY GOEFENCING MOVABLE VEHICLE AND OTHER EQUIPMENT AND THE LIKE   | 200401788  | 03/04/2004 | 20040178<br>8 | 05/25/2005 | CALAMP<br>CORP.                                   |
| US | Issued | METHOD OF AND APPARATUS FOR UTILIZING GEOGRAPHICALLY SPREAD CELLULAR RADIO NETWORKS TO SUPPLEMENT MORE GEOGRAPHICALLY LIMITED STOLEN VEHICLE RECOVERY RADIO NETWORKS IN ACTIVATION OF RADIO TRACKING AND RECOVERY OF SUCH | 10/150818  | 05/17/2002 | 7536169       | 05/19/2009 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| US | Issued | METHOD OF AND APPARATUS FOR UTILIZING GEOGRAPHICALLY SPREAD CELLULAR RADIO NETWORKS TO SUPPLEMENT MORE GEOGRAPHICALLY LIMITED STOLEN VEHICLE RECOVERY RADIO NETWORKS IN ACTIVATION OF RADIO TRACKING AND RECOVERY OF SUCH | 12/381381  | 03/11/2009 | 8086215       | 12/27/2011 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| AT | Issued | METHOD OF AND APPARATUS FOR UTILIZING GEOGRAPHICALLY SPREAD CELLULAR RADIO NETWORKS TO SUPPLEMENT MORE GEOGRAPHICALLY   | 02772640.5 | 09/20/2002 | 1509429       | 12/12/2007 | LOJACK<br>CORPORATI<br>ON                         |

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|    |        | LIMITED STOLEN VEHICLE RECOVERY RADIO NETWORKS IN ACTIVATION OF RADIO TRACKING AND RECOVERY OF SUCH   |            |            |            |            |                    |
| BE | Issued | METHOD OF AND APPARATUS FOR UTILIZING GEOGRAPHICALLY SPREAD CELLULAR RADIO NETWORKS TO SUPPLEMENT MORE GEOGRAPHICALLY LIMITED STOLEN VEHICLE RECOVERY RADIO NETWORKS IN ACTIVATION OF RADIO TRACKING AND RECOVERY OF SUCH | 02772640.5 | 09/20/2002 | 1509429    | 12/12/2007 | LOJACK CORPORATION |
| DE | Issued | METHOD OF AND APPARATUS FOR UTILIZING GEOGRAPHICALLY SPREAD CELLULAR RADIO NETWORKS TO SUPPLEMENT MORE GEOGRAPHICALLY LIMITED STOLEN VEHICLE RECOVERY RADIO NETWORKS IN ACTIVATION OF RADIO TRACKING AND RECOVERY OF SUCH | 02772640.5 | 09/20/2002 | 60224103.0 | 12/12/2007 | LOJACK CORPORATION |
| DK | Issued | METHOD OF AND APPARATUS FOR UTILIZING GEOGRAPHICALLY SPREAD CELLULAR RADIO NETWORKS TO SUPPLEMENT MORE GEOGRAPHICALLY LIMITED STOLEN VEHICLE RECOVERY RADIO NETWORKS IN ACTIVATION OF RADIO TRACKING AND RECOVERY OF SUCH | 02772640.5 | 09/20/2002 | 1509429    | 12/12/2007 | LOJACK CORPORATION |

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| ES | Issued | METHOD OF AND APPARATUS FOR UTILIZING GEOGRAPHICALLY SPREAD CELLULAR RADIO NETWORKS TO SUPPLEMENT MORE GEOGRAPHICALLY LIMITED STOLEN VEHICLE RECOVERY RADIO NETWORKS IN ACTIVATION OF RADIO TRACKING AND RECOVERY OF SUCH | 02772640.5 | 09/20/2002 | 1509429 | 12/12/2007 | LOJACK CORPORATION |
| FR | Issued | METHOD OF AND APPARATUS FOR UTILIZING GEOGRAPHICALLY SPREAD CELLULAR RADIO NETWORKS TO SUPPLEMENT MORE GEOGRAPHICALLY LIMITED STOLEN VEHICLE RECOVERY RADIO NETWORKS IN ACTIVATION OF RADIO TRACKING AND RECOVERY OF SUCH | 02772640.5 | 09/20/2002 | 1509429 | 12/12/2007 | LOJACK CORPORATION |
| GB | Issued | METHOD OF AND APPARATUS FOR UTILIZING GEOGRAPHICALLY SPREAD CELLULAR RADIO NETWORKS TO SUPPLEMENT MORE GEOGRAPHICALLY LIMITED STOLEN VEHICLE RECOVERY RADIO NETWORKS IN ACTIVATION OF RADIO TRACKING AND RECOVERY OF SUCH | 02772640.5 | 09/20/2002 | 1509429 | 12/12/2007 | LOJACK CORPORATION |
| IE | Issued | METHOD OF AND APPARATUS FOR UTILIZING GEOGRAPHICALLY SPREAD CELLULAR RADIO NETWORKS TO SUPPLEMENT MORE GEOGRAPHICALLY   | 02772640.5 | 09/20/2002 | 1509429 | 12/12/2007 | LOJACK CORPORATION |

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|    |        | LIMITED STOLEN VEHICLE RECOVERY RADIO NETWORKS IN ACTIVATION OF RADIO TRACKING AND RECOVERY OF SUCH   |            |            |         |            |                    |
| IT | Issued | METHOD OF AND APPARATUS FOR UTILIZING GEOGRAPHICALLY SPREAD CELLULAR RADIO NETWORKS TO SUPPLEMENT MORE GEOGRAPHICALLY LIMITED STOLEN VEHICLE RECOVERY RADIO NETWORKS IN ACTIVATION OF RADIO TRACKING AND RECOVERY OF SUCH | 02772640.5 | 09/20/2002 | 1509429 | 12/12/2007 | LOJACK CORPORATION |
| LU | Issued | METHOD OF AND APPARATUS FOR UTILIZING GEOGRAPHICALLY SPREAD CELLULAR RADIO NETWORKS TO SUPPLEMENT MORE GEOGRAPHICALLY LIMITED STOLEN VEHICLE RECOVERY RADIO NETWORKS IN ACTIVATION OF RADIO TRACKING AND RECOVERY OF SUCH | 02772640.5 | 09/20/2002 | 1509429 | 12/12/2007 | LOJACK CORPORATION |
| MC | Issued | METHOD OF AND APPARATUS FOR UTILIZING GEOGRAPHICALLY SPREAD CELLULAR RADIO NETWORKS TO SUPPLEMENT MORE GEOGRAPHICALLY LIMITED STOLEN VEHICLE RECOVERY RADIO NETWORKS IN ACTIVATION OF RADIO TRACKING AND RECOVERY OF SUCH | 02772640.5 | 09/20/2002 | 1509429 | 12/12/2007 | LOJACK CORPORATION |



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| MX | Issued | METHOD OF AND APPARATUS FOR UTILIZING GEOGRAPHICALLY SPREAD CELLULAR RADIO NETWORKS TO SUPPLEMENT MORE GEOGRAPHICALLY LIMITED STOLEN VEHICLE RECOVERY RADIO NETWORKS IN ACTIVATION OF RADIO TRACKING AND RECOVERY OF SUCH | PAa2004011436    | 09/20/2002 |                |            | LOJACK CORPORATION                   |
| MX | Issued | METHOD OF AND APPARATUS FOR UTILIZING GEOGRAPHICALLY SPREAD CELLULAR RADIO NETWORKS TO SUPPLEMENT MORE GEOGRAPHICALLY LIMITED STOLEN VEHICLE RECOVERY RADIO NETWORKS IN ACTIVATION OF RADIO TRACKING AND RECOVERY OF SUCH | MX/a/2008/011982 | 09/19/2008 |                |            | LOJACK CORPORATION                   |
| US | Issued | METHOD OF AN APPARATUS FOR SENSING THE UNAUTHORIZED MOVEMENT OF VEHICLES AND THE LIKE AND GENERATING AN ALARM OR WARNING OF VEHICLE THEFT   | 10/241259        | 09/10/2002 | 7973649        | 07/05/2011 | CALAMP WIRELESS NETWORKS CORPORATION |
| DE | Issued | METHOD OF AN APPARATUS FOR SENSING THE UNAUTHORIZED MOVEMENT OF VEHICLES AND THE LIKE AND GENERATING AN ALARM OR WARNING OF VEHICLE THEFT   | 04701406.3       | 01/12/2004 | 602004012163.0 | 02/27/2008 | LOJACK CORPORATION                   |
| GB | Issued | METHOD OF AN APPARATUS FOR SENSING THE UNAUTHORIZED MOVEMENT OF VEHICLES  | 04701406.3       | 01/12/2004 | 1730005        | 02/27/2008 | LOJACK CORPORATION                   |

|    |        |  |                    |            |                       |            |                                      |
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|    |        | AND THE LIKE AND GENERATING AN ALARM OR WARNING OF VEHICLE THEFT   |                    |            |                       |            |                                      |
| IT | Issued | METHOD OF AN APPARATUS FOR SENSING THE UNAUTHORIZED MOVEMENT OF VEHICLES AND THE LIKE AND GENERATING AN ALARM OR WARNING OF VEHICLE THEFT  | 04701406.3         | 01/12/2004 | 1730005               | 02/27/2008 | LOJACK CORPORATION                   |
| US | Issued | METHOD OF AND SYSTEM FOR EXPANDING LOCALIZED MISSING CUSTOMER-VEHICLE LAW ENFORCEMENT-AIDED VHF RECOVERY NETWORKS WITH LOCATION-ON-DEMAND SUPPLEMENTAL SERVICE FEATURES VIA SUCH NETWORKS FOR IMPROVED LAW ENFORCEMENT-AIDED RECOVERY, AND VIA THE | 10/886870          | 07/08/2004 | 7561102               | 07/14/2009 | CALAMP WIRELESS NETWORKS CORPORATION |
| CN | Issued | METHOD OF AND SYSTEM FOR EXPANDING LOCALIZED MISSING CUSTOMER-VEHICLE LAW ENFORCEMENT-AIDED VHF RECOVERY NETWORKS WITH LOCATION-ON-DEMAND SUPPLEMENTAL SERVICE FEATURES VIA SUCH NETWORKS FOR IMPROVED LAW ENFORCEMENT-AIDED RECOVERY, AND VIA THE | 2004800439<br>13.6 | 12/02/2004 | ZL200480<br>04391 3.6 |            | LOJACK CORPORATION                   |
| GB | Issued | METHOD OF AND SYSTEM FOR EXPANDING LOCALIZED MISSING CUSTOMER-VEHICLE LAW ENFORCEMENT-AIDED VHF RECOVERY   | 04801286.8         | 12/02/2004 | 1776599               | 09/02/2015 | LOJACK CORPORATION                   |

|    |        |  |                  |            |           |            |                          |
|----|--------|--|------------------|------------|-----------|------------|--------------------------|
|    |        | NETWORKS WITH LOCATION-ON-DEMAND SUPPLEMENTAL SERVICE FEATURES VIA SUCH NETWORKS FOR IMPROVED LAW ENFORCEMENT-AIDED RECOVERY, AND VIA THE  |                  |            |           |            |                          |
| MX | Issued | METHOD OF AND SYSTEM FOR EXPANDING LOCALIZED MISSING CUSTOMER-VEHICLE LAW ENFORCEMENT-AIDED VHF RECOVERY NETWORKS WITH LOCATION-ON-DEMAND SUPPLEMENTAL SERVICE FEATURES VIA SUCH NETWORKS FOR IMPROVED LAW ENFORCEMENT-AIDED RECOVERY, AND VIA THE | MX/a/2007/000247 | 12/02/2004 |           |            | LOJACK CORPORATION       |
| ZA | Issued | METHOD OF AND SYSTEM FOR EXPANDING LOCALIZED MISSING CUSTOMER-VEHICLE LAW ENFORCEMENT-AIDED VHF RECOVERY NETWORKS WITH LOCATION-ON-DEMAND SUPPLEMENTAL SERVICE FEATURES VIA SUCH NETWORKS FOR IMPROVED LAW ENFORCEMENT-AIDED RECOVERY, AND VIA THE | 200700769        | 12/02/2004 | 200700769 | 07/28/2010 | LOJACK CORPORATION       |
| CL | Issued | VEHICLE LOCATING UNIT WITH IMPROVED POWER MANAGEMENT METHOD  | 200601178        | 05/18/2006 |           |            | LOJACK CORPORATION       |
| CL | Issued | VEHICLE LOCATING UNIT WITH IMPROVED POWER MANAGEMENT METHOD  | 200901390        | 05/18/2006 |           |            | LOJACK CORPORATION       |
| US | Issued | VEHICLE LOCATING UNIT WITH IMPROVED POWER MANAGEMENT   | 11/131847        | 05/18/2005 | 7593711   | 09/22/2009 | CALAMP WIRELESS NETWORKS |

|    |        |  |                      |            |                |            |   |
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|    |        | METHOD   |                      |            |                |            | CORPORATI<br>ON                                   |
| US | Issued | VEHICLE LOCATING UNIT<br>WITH IMPROVED POWER<br>MANAGEMENT<br>METHOD | 12/462949            | 08/12/2009 | 7853218        | 12/14/2010 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| BR | Issued | VEHICLE LOCATING UNIT<br>WITH IMPROVED POWER<br>MANAGEMENT METHOD    | PI 0610711-<br>7     | 05/17/2006 | PI0610711      | 07/16/2019 | LOJACK<br>CORPORATI<br>ON                         |
| GB | Issued | VEHICLE LOCATING UNIT<br>WITH IMPROVED POWER<br>MANAGEMENT<br>METHOD | 06770448.6           | 05/17/2006 | 1882310        | 09/23/2015 | LOJACK<br>CORPORATI<br>ON                         |
| IT | Issued | VEHICLE LOCATING UNIT<br>WITH<br>IMPROVED POWER<br>MANAGEMENT METHOD | 06770448.6           | 05/17/2006 | 1882310        | 09/23/2015 | LOJACK<br>CORPORATI<br>ON                         |
| MX | Issued | VEHICLE LOCATING UNIT<br>WITH IMPROVED POWER<br>MANAGEMENT<br>METHOD | MX/a/2007/<br>014457 | 05/17/2006 |                |            | LOJACK<br>CORPORATI<br>ON                         |
| ZA | Issued | VEHICLE LOCATING UNIT<br>WITH IMPROVED POWER<br>MANAGEMENT<br>METHOD | 200709888            | 05/17/2006 | 20070988<br>8  | 04/28/2010 | LOJACK<br>CORPORATI<br>ON                         |
| US | Issued | VEHICLE LOCATING UNIT<br>WITH INPUT VOLTAGE<br>PROTECTION            | 11/131846            | 05/18/2005 | 7511606        | 03/31/2009 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| ZA | Issued | VEHICLE LOCATING UNIT<br>WITH INPUT VOLTAGE<br>PROTECTION            | 200709890            | 05/17/2006 | 20070989<br>0  | 12/31/2008 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| DE | Issued | VEHICLE LOCATION<br>SYSTEM USING A KINETIC<br>NETWORK                | 03291817.9           | 07/23/2003 | 60311039.<br>8 | 01/10/2007 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| GB | Issued | VEHICLE LOCATION<br>SYSTEM USING A KINETIC<br>NETWORK                | 03291817.9           | 07/23/2003 | 1384635        | 01/10/2007 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| IT | Issued | VEHICLE LOCATION<br>SYSTEM USING A KINETIC<br>NETWORK                | 03291817.9           | 07/23/2003 | 1384635        | 01/10/2007 | CALAMP<br>WIRELESS<br>NETWORKS                    |

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|    |        |  |                   |            |          |            | CORPORATI<br>ON                                   |
| MX | Issued | VEHICLE LOCATION<br>SYSTEM USING A<br>KINETIC NETWORK  | PAA200300<br>6569 | 07/23/2003 |          |            | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| US | Issued | VEHICLE LOCATION<br>SYSTEM USING A KINETIC<br>NETWORK  | 10/626119         | 07/23/2003 | 7091835  | 08/15/2006 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| US | Issued | RECOVERY SYSTEM WITH<br>REPEATING<br>COMMUNICATION<br>CAPABILITIES   | 11/229736         | 09/19/2005 | 8787823  | 07/22/2014 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| US | Issued | RECOVERY SYSTEM WITH<br>REPEATING<br>COMMUNICATION<br>CAPABILITIES   | 14/333918         | 07/17/2014 | 9592794  | 03/14/2017 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| US | Issued | RECOVERY SYSTEM WITH<br>REPEATING<br>COMMUNICATION<br>CAPABILITIES   | 15/422104         | 02/01/2017 | 10286874 | 05/14/2019 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| US | Issued | RECOVERY SYSTEM WITH<br>REPEATING<br>COMMUNICATION<br>CAPABILITIES   | 16/410929         | 05/13/2019 | 10549720 | 02/04/2020 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| US | Issued | RECOVERY SYSTEM WITH<br>REPEATING<br>COMMUNICATION<br>CAPABILITIES   | 16/780223         | 02/03/2020 | 11214231 | 01/04/2022 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| US | Issued | RECOVERY SYSTEM WITH<br>REPEATING<br>COMMUNICATION<br>CAPABILITIES   | 11/438586         | 05/22/2006 | 7664462  | 02/16/2010 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| US | Issued | ADAPTIVE RANGE<br>VEHICLE LOCATING UNIT,<br>VEHICLE TRACKING UNIT<br>AND VEHICLE RECOVERY<br>SYSTEM INCLUDING SAME | 11/716793         | 03/12/2007 | 8149142  | 04/03/2012 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| CL | Issued | ASSET RECOVERY SYSTEM  | 8612010           | 08/12/2010 | 53108    | 09/29/2016 | LOJACK<br>CORPORATI<br>ON                         |

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|----|---------|--|-----------------|------------|----------------|------------|--------------------------------------|
| US | Issued  | ASSET RECOVERY SYSTEM  | 12/378242       | 02/12/2009 | 8013735        | 09/06/2011 | CALAMP WIRELESS NETWORKS CORPORATION |
| BR | Pending | ASSET RECOVERY SYSTEM  | PI09082093      | 02/12/2009 |                |            | LOJACK CORPORATION                   |
| CA | Issued  | ASSET RECOVERY SYSTEM  | 2715377         | 02/12/2009 | 2715377        | 10/15/2013 | LOJACK CORPORATION                   |
| DE | Issued  | ASSET RECOVERY SYSTEM  | 09710432.7      | 02/12/2009 | 602009028533.5 | 12/24/2014 | LOJACK CORPORATION                   |
| FR | Issued  | ASSET RECOVERY SYSTEM  | 09710432.7      | 02/12/2009 | 2245606        | 12/24/2014 | LOJACK CORPORATION                   |
| GB | Issued  | ASSET RECOVERY SYSTEM  | 09710432.7      | 02/12/2009 | 2245606        | 12/24/2014 | LOJACK CORPORATION                   |
| IT | Issued  | ASSET RECOVERY SYSTEM  | 09710432.7      | 02/12/2009 | 2245606        | 12/24/2014 | LOJACK CORPORATION                   |
| MX | Issued  | ASSET RECOVERY SYSTEM  | MX/a/2010008918 | 02/12/2009 |                |            | LOJACK CORPORATION                   |
| ZA | Issued  | ASSET RECOVERY SYSTEM  | 201005709       | 02/12/2009 | 201005709      | 04/25/2012 | LOJACK CORPORATION                   |
| US | Issued  | PROXIMITY MONITORING AND LOCATING SYSTEM                     | 12/455927       | 06/09/2009 | 8169328        | 05/01/2012 | CALAMP WIRELESS NETWORKS CORPORATION |
| US | Issued  | POWER MANAGEMENT SYSTEM AND METHOD FOR VEHICLE LOCATING UNIT | 12/589498       | 10/23/2009 | 8618957        | 12/31/2013 | CALAMP WIRELESS NETWORKS CORPORATION |
| US | Issued  | POWER MANAGEMENT SYSTEM AND METHOD FOR VEHICLE LOCATING UNIT | 14/093982       | 12/02/2013 | 9565636        | 02/07/2017 | CALAMP WIRELESS NETWORKS CORPORATION |
| US | Issued  | POWER MANAGEMENT SYSTEM AND METHOD FOR VEHICLE LOCATING UNIT | 15/403824       | 01/11/2017 | 10212663       | 02/19/2019 | CALAMP WIRELESS NETWORKS CORPORATION |

|    |         |   |                  |            |                |            |                                      |
|----|---------|---|------------------|------------|----------------|------------|--------------------------------------|
| BR | Issued  | POWER MANAGEMENT SYSTEM AND METHOD FOR VEHICLE LOCATING UNIT  | BR1120120108280  | 09/01/2010 | PI11010828     | 02/18/2020 | CALAMP WIRELESS NETWORKS CORPORATION |
| CL | Issued  | POWER MANAGEMENT SYSTEM AND METHOD FOR VEHICLE LOCATING UNIT  | 10242012         | 09/01/2010 |                |            | CALAMP WIRELESS NETWORKS CORPORATION |
| CO | Pending | POWER MANAGEMENT SYSTEM AND METHOD FOR VEHICLE LOCATING UNIT  | 12083840         | 09/01/2010 |                |            | CALAMP WIRELESS NETWORKS CORPORATION |
| DE | Issued  | POWER MANAGEMENT SYSTEM AND METHOD FOR VEHICLE LOCATING UNIT  | 10825310.5       | 09/01/2010 | 602010059299.5 | 06/05/2019 | CALAMP WIRELESS NETWORKS CORPORATION |
| GB | Issued  | POWER MANAGEMENT SYSTEM AND METHOD FOR VEHICLE LOCATING UNIT  | 10825310.5       | 09/01/2010 | 2491342        | 06/05/2019 | LOJACK CORPORATION                   |
| IT | Issued  | POWER MANAGEMENT SYSTEM AND METHOD FOR VEHICLE LOCATING UNIT  | 10825310.5       | 09/01/2010 | 50201900071138 | 06/05/2019 | CALAMP WIRELESS NETWORKS CORPORATION |
| MX | Issued  | POWER MANAGEMENT SYSTEM AND METHOD FOR VEHICLE LOCATING UNIT  | MX/a/2012/004762 | 09/01/2010 |                |            | CALAMP WIRELESS NETWORKS CORPORATION |
| MX | Issued  | POWER MANAGEMENT SYSTEM AND METHOD FOR VEHICLE LOCATING UNIT  | MX/a/2014/001446 | 09/01/2010 |                |            | CALAMP WIRELESS NETWORKS CORPORATION |
| US | Issued  | FAST SETTLING, BIT SLICING COMPARATOR CIRCUIT   | 12/589367        | 10/22/2009 | 8242810        | 08/14/2012 | CALAMP CORP.                         |
| US | Issued  | SYNCHRONIZATION SYSTEM AND METHOD FOR ACHIEVING LOW POWER BATTERY OPERATION OF A VEHICLE LOCATING UNIT IN A STOLEN VEHICLE RECOVERY | 12/925159        | 10/14/2010 | 8630605        | 01/14/2014 | CALAMP WIRELESS NETWORKS CORPORATION |

|    |        |  |                  |            |            |            |                                      |
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|    |        | SYSTEM WHICH RECEIVES PERIODIC   |                  |            |            |            |                                      |
| US | Issued | SYNCHRONIZATION SYSTEM AND METHOD FOR ACHIEVING LOW POWER BATTERY OPERATION OF A VEHICLE LOCATING UNIT IN A STOLEN VEHICLE RECOVERY SYSTEM WHICH RECEIVES PERIODIC | 14/082683        | 11/18/2013 | 9112674    | 08/18/2015 | CALAMP WIRELESS NETWORKS CORPORATION |
| US | Issued | SYNCHRONIZATION SYSTEM AND METHOD FOR ACHIEVING LOW POWER BATTERY OPERATION OF A VEHICLE LOCATING UNIT IN A STOLEN VEHICLE RECOVERY SYSTEM WHICH RECEIVES PERIODIC | 14/827992        | 08/17/2015 | 9480037    | 10/25/2016 | CALAMP WIRELESS NETWORKS CORPORATION |
| CL | Issued | SYNCHRONIZATION SYSTEM AND METHOD FOR ACHIEVING LOW POWER BATTERY OPERATION OF A VEHICLE LOCATING UNIT IN A STOLEN VEHICLE RECOVERY SYSTEM WHICH RECEIVES PERIODIC | 201201023        | 10/18/2010 |            |            | CALAMP WIRELESS NETWORKS CORPORATION |
| IN | Issued | SYNCHRONIZATION SYSTEM AND METHOD FOR ACHIEVING LOW POWER BATTERY OPERATION OF A VEHICLE LOCATING UNIT IN A STOLEN VEHICLE RECOVERY SYSTEM WHICH RECEIVES PERIODIC | 1228/KOLN P/2012 | 10/18/2010 | 354202     | 12/22/2020 | CALAMP WIRELESS NETWORKS CORPORATION |
| US | Issued | DUTY CYCLE ESTIMATION SYSTEM AND METHOD  | 12/589288        | 10/21/2009 | 8229518    | 07/24/2012 | CALAMP WIRELESS NETWORKS CORPORATION |
| BR | Issued | DUTY CYCLE ESTIMATION SYSTEM AND METHOD  | BR1120120096370  | 08/16/2010 | PI11009637 | 10/01/2019 | LOJACK CORPORATION                   |



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|----|---------|--|----------------------|------------|--------------------|------------|---|
| DE | Issued  | DUTY CYCLE ESTIMATION SYSTEM AND METHOD                              | 10825308.9           | 08/16/2010 | 60201003<br>9401.8 | 01/04/2017 | LOJACK<br>CORPORATI<br>ON                         |
| ES | Issued  | DUTY CYCLE ESTIMATION SYSTEM AND METHOD                              | 10825308.9           | 08/16/2010 | 2490922            | 01/04/2017 | LOJACK<br>CORPORATI<br>ON                         |
| GB | Issued  | DUTY CYCLE ESTIMATION SYSTEM AND METHOD                              | 10825308.9           | 08/16/2010 | 2490922            | 01/04/2017 | LOJACK<br>CORPORATI<br>ON                         |
| IT | Issued  | DUTY CYCLE ESTIMATION SYSTEM AND METHOD                              | 10825308.9           | 08/16/2010 | 2490922            | 01/04/2017 | LOJACK<br>CORPORATI<br>ON                         |
| US | Issued  | NOTCHED SAW IMAGE FREQUENCY REJECTION FILTER SYSTEM                  | 12/589431            | 10/23/2009 | 8169279            | 05/01/2012 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| US | Issued  | BODY COUPLED ANTENNA SYSTEM AND PERSONAL LOCATOR UNIT UTILIZING SAME | 12/803338            | 06/24/2010 | 8350695            | 01/08/2013 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| US | Issued  | LOW-POWER WIRELESS VEHICLE LOCATING UNIT                             | 13/896674            | 05/17/2013 | 9088398            | 07/21/2015 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| US | Issued  | LOW-POWER WIRELESS VEHICLE LOCATING UNIT                             | 14/801148            | 07/16/2015 | 9661456            | 05/23/2017 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| GB | Issued  | LOW-POWER WIRELESS VEHICLE LOCATING UNIT                             | 13791408.1           | 05/17/2013 | 2850606            | 04/12/2017 | LOJACK<br>CORPORATI<br>ON                         |
| GB | Issued  | LOW-POWER WIRELESS VEHICLE LOCATING UNIT                             | 16160192.7           | 05/17/2013 | 3062300            | 08/23/2017 | LOJACK<br>CORPORATI<br>ON                         |
| IT | Issued  | LOW-POWER WIRELESS VEHICLE LOCATING UNIT                             | 13791408.1           | 05/17/2013 | 2850606            | 04/12/2017 | LOJACK<br>CORPORATI<br>ON                         |
| CN | Pending | VEHICLE LOCATING UNIT PROOF OF LIFE SUBSYSTEM AND METHOD             | 2006800230<br>064    | 05/17/2006 |                    |            | LOJACK<br>CORPORATI<br>ON                         |
| MX | Pending | VEHICLE LOCATING UNIT PROOF OF LIFE SUBSYSTEM AND METHOD             | MX/a/2007/<br>014459 | 05/17/2006 |                    |            | LOJACK<br>CORPORATI<br>ON                         |

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|----|---------|---|-----------|------------|----------------|------------|---|
| ZA | Issued  | VEHICLE LOCATING UNIT<br>PROOF OF<br>LIFE SUBSYSTEM AND<br>METHOD   | 200709889 | 05/17/2006 | 2007/0988<br>9 | 12/31/2008 | LOJACK<br>CORPORATI<br>ON                         |
| US | Issued  | METHOD OF AND<br>APPARATUS FOR VEHICLE<br>INSPECTION AND THE LIKE<br>WITH SECURITY FOR THE<br>INSPECTRO AND FACILITY<br>FOR RADIO TRACKING OF<br>A VEHICLE ATTEMPTING<br>ESCAPE<br>FROM THE INSPECTOR | 10/441569 | 05/20/2003 | 7106211        | 09/12/2006 | CALAMP<br>WIRELESS<br>NETWORKS<br>CORPORATI<br>ON |
| ES | Pending | METHOD OF AND SYSTEM<br>AND APPARATUS FOR<br>LOCATING AND/OR<br>TRACKING STOLEN OR<br>MISSING<br>VEHICLES AND THE LIKE  | 8700923   | 03/31/1987 |                |            | LOJACK<br>CORPORATI<br>ON                         |
| HK | Issued  | METHOD OF AND SYSTEM<br>AND APPARATUS FOR<br>LOCATING AND/OR<br>TRACKING STOLEN OR<br>MISSING<br>VEHICLES AND THE LIKE  | 94000039  | 08/22/1986 |                |            | LOJACK<br>CORPORATI<br>ON                         |
| US | Issued  | COAXIAL HELIX<br>ANTENNAS   | 15/422124 | 02/01/2017 | 10461410       | 10/29/2019 | CALAMP<br>CORP.                                   |
| US | Issued  | COAXIAL HELIX<br>ANTENNAS   | 16/665658 | 10/28/2019 | 10998618       | 05/04/2021 | CALAMP<br>CORP.                                   |
| US | Issued  | HIGH EFFICIENCY<br>TRANSMIT-<br>RECEIVE SWITCHES  | 15/642214 | 07/05/2017 | 10135407       | 11/20/2018 | CALAMP<br>CORP.                                   |
| US | Issued  | SINGLE STAGE RAMPED<br>POWER<br>AMPLIFIERS  | 15/726187 | 10/05/2017 | 10367457       | 07/30/2019 | CALAMP<br>CORP.                                   |
| US | Issued  | SYSTEMS AND METHODS<br>FOR DETERMINING AND<br>COMPENSATING<br>FOR OFFSETS IN RF   | 15/683000 | 08/22/2017 | 10243766       | 03/26/2019 | CALAMP<br>CORP.                                   |
| CA | Issued  | SYSTEMS, DEVICES AND<br>METHODS FOR DETECTING<br>ENGINE IDLING AND<br>REPORTING SAME  | 2831684   | 03/28/2012 | 2831684        | 03/05/2019 | Synovia<br>Solutions LLC                          |
| US | Issued  | SYSTEMS, DEVICES AND<br>METHODS<br>FOR DETECTING ENGINE<br>IDLING AND REPORTING<br>SAME   | 13/432774 | 03/28/2012 | 8781708        | 07/15/2014 | CALAMP<br>CORP.                                   |
| CA | Issued  | BUS ARRIVAL<br>NOTIFICATION SYSTEM  | 2422473   | 09/14/2001 | 2422473        | 04/06/2010 | Synovia<br>Solutions LLC                          |

|    |        |   |           |            |         |            |                          |
|----|--------|---|-----------|------------|---------|------------|--------------------------|
|    |        | AND METHODS RELATED<br>THERE TO   |           |            |         |            |                          |
| US | Issued | EVERYDAY WIRELESS<br>VEHICLE NOTIFICATION<br>AND VEHICLE LOCATION<br>SYSTEMS AND METHODS<br>RELATED THERETO | 10/509172 | 12/30/2005 | 7394403 | 07/01/2008 | Synovia<br>Solutions LLC |