

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6901532

|                                    |                       |                       |
|------------------------------------|-----------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>            | NEW ASSIGNMENT        |                       |
| <b>NATURE OF CONVEYANCE:</b>       | CHANGE OF NAME        |                       |
| <b>CONVEYING PARTY DATA</b>        |                       |                       |
| <b>Name</b>                        |                       | <b>Execution Date</b> |
| LINEAR TECHNOLOGY CORPORATION      |                       | 05/02/2017            |
| <b>RECEIVING PARTY DATA</b>        |                       |                       |
| <b>Name:</b>                       | LINEAR TECHNOLOGY LLC |                       |
| <b>Street Address:</b>             | 1630 MCCARTHY BLVD.   |                       |
| <b>City:</b>                       | MILPITAS              |                       |
| <b>State/Country:</b>              | CALIFORNIA            |                       |
| <b>Postal Code:</b>                | 95035                 |                       |
| <b>PROPERTY NUMBERS Total: 100</b> |                       |                       |
| <b>Property Type</b>               | <b>Number</b>         |                       |
| Application Number:                | 62255043              |                       |
| Application Number:                | 15158339              |                       |
| Application Number:                | 15465562              |                       |
| Application Number:                | 15473533              |                       |
| Application Number:                | 61824819              |                       |
| Application Number:                | 14052479              |                       |
| Application Number:                | 61894764              |                       |
| Application Number:                | 14157300              |                       |
| Application Number:                | 61897067              |                       |
| Application Number:                | 14157316              |                       |
| Application Number:                | 61767628              |                       |
| Application Number:                | 14092131              |                       |
| Application Number:                | 14854635              |                       |
| Application Number:                | 13550033              |                       |
| Application Number:                | 14981755              |                       |
| Application Number:                | 62257058              |                       |
| Application Number:                | 15236365              |                       |
| Application Number:                | 15834047              |                       |
| Application Number:                | 60646509              |                       |
| Application Number:                | 11267261              |                       |

PATENT

| Property Type       | Number   |
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| Application Number: | 13155993 |
| Application Number: | 13646571 |
| Application Number: | 12202835 |
| Application Number: | 61866334 |
| Application Number: | 14148550 |
| Application Number: | 13734485 |
| Application Number: | 11827704 |
| Application Number: | 12541557 |
| Application Number: | 61550655 |
| Application Number: | 13657412 |
| Application Number: | 61809192 |
| Application Number: | 14245390 |
| Application Number: | 09135224 |
| Application Number: | 62326334 |
| Application Number: | 15493495 |
| Application Number: | 61216202 |
| Application Number: | 12778617 |
| Application Number: | 12778624 |
| Application Number: | 14586692 |
| Application Number: | 61480915 |
| Application Number: | 13457320 |
| Application Number: | 14336653 |
| Application Number: | 61002495 |
| Application Number: | 12287623 |
| Application Number: | 11252567 |
| Application Number: | 11373266 |
| Application Number: | 12332288 |
| Application Number: | 60907423 |
| Application Number: | 11896669 |
| Application Number: | 13727418 |
| Application Number: | 10124658 |
| Application Number: | 11222996 |
| Application Number: | 11223188 |
| Application Number: | 14033110 |
| Application Number: | 61900832 |
| Application Number: | 14486697 |
| Application Number: | 15088714 |
| Application Number: | 61727317 |

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| Application Number: | 14080625 |
| Application Number: | 62011670 |
| Application Number: | 14733932 |
| Application Number: | 62047432 |
| Application Number: | 14593813 |
| Application Number: | 15019394 |
| Application Number: | 11444405 |
| Application Number: | 61497381 |
| Application Number: | 12795330 |
| Application Number: | 13924258 |
| Application Number: | 11166279 |
| Application Number: | 11731279 |
| Application Number: | 60619007 |
| Application Number: | 11252388 |
| Application Number: | 11252387 |
| Application Number: | 11477159 |
| Application Number: | 11252607 |
| Application Number: | 11030993 |
| Application Number: | 12358568 |
| Application Number: | 10307200 |
| Application Number: | 11327052 |
| Application Number: | 11326823 |
| Application Number: | 10991387 |
| Application Number: | 13398046 |
| Application Number: | 61243230 |
| Application Number: | 12882806 |
| Application Number: | 61351685 |
| Application Number: | 13151689 |
| Application Number: | 12276552 |
| Application Number: | 11605297 |
| Application Number: | 60254821 |
| Application Number: | 10013893 |
| Application Number: | 61847697 |
| Application Number: | 14083195 |
| Application Number: | 61754452 |
| Application Number: | 13922191 |
| Application Number: | 09116309 |
| Application Number: | 10028243 |

| Property Type       | Number       |
|---------------------|--------------|
| Application Number: | 13111636     |
| Application Number: | 61524945     |
| Application Number: | 13315654     |
| PCT Number:         | US2005037187 |

#### CORRESPONDENCE DATA

**Fax Number:** (612)339-3061

*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:** 6123593272

**Email:** jehlers@slwip.com

**Correspondent Name:** SCHWEGMAN LUNDBERG & WOESSNER, P.A.

**Address Line 1:** 121 SOUTH 8TH STREET

**Address Line 4:** MINNEAPOLIS, MINNESOTA 55402

|                                |                   |
|--------------------------------|-------------------|
| <b>ATTORNEY DOCKET NUMBER:</b> | 5867.000001       |
| <b>NAME OF SUBMITTER:</b>      | JAMIE A EHLERS    |
| <b>SIGNATURE:</b>              | /Jamie A. Ehlers/ |
| <b>DATE SIGNED:</b>            | 09/04/2021        |

#### Total Attachments: 160

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# Delaware

The First State

Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A DELAWARE DELAWARE CORPORATION UNDER THE NAME OF "LINEAR TECHNOLOGY CORPORATION" TO A DELAWARE LIMITED LIABILITY COMPANY, CHANGING ITS NAME FROM "LINEAR TECHNOLOGY CORPORATION" TO "LINEAR TECHNOLOGY LLC", FILED IN THIS OFFICE ON THE SECOND DAY OF MAY, A.D. 2017, AT 12:03 O'CLOCK P.M.



2263108 8100V  
SR# 20172987834

You may verify this certificate online at [corp.delaware.gov/active/shm](http://corp.delaware.gov/active/shm)

  
Jeffrey W. Bullock, Secretary of State

Authentication: 202471514  
Date: 05-02-17



**CERTIFICATE OF CONVERSION TO LIMITED LIABILITY COMPANY  
OF  
LINEAR TECHNOLOGY CORPORATION  
TO  
LINEAR TECHNOLOGY LLC**

This Certificate of Conversion to Limited Liability Company is being duly executed and filed by Linear Technology Corporation, a Delaware corporation (the "Corporation"), to convert the Corporation to a Delaware limited liability company under the Delaware Limited Liability Company Act (6 Del. C. § 18-214) and the General Corporation Law of the State of Delaware (8 Del. C. § 266).

1. The Corporation filed its original Certificate of Incorporation with the Secretary of State of the State of Delaware and was first incorporated on October 20, 2000 under the name Linear Technology Corporation.
2. The Corporation's name immediately prior to the filing of this Certificate of Conversion to Limited Liability Company was Linear Technology Corporation.
3. The name of the limited liability company into which the Corporation shall be converted as set forth in the Certificate of Formation of the limited liability company shall be Linear Technology LLC.

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IN WITNESS WHEREOF, the undersigned has executed this Certificate of Conversion  
to Limited Liability Company as of May 2<sup>nd</sup>, 2017.

LINEAR TECHNOLOGY CORPORATION

By:   
Name: Kevin Lanquette  
Title: Secretary

| FILE NUMBER     | MATTER TYPE        | SERIAL NUMBER  | TITLE                                                                   | DATE FILED   | STATUS  | GRANT DATE   | PATENT NUMBER | CLIENT NAME                      | CURRENT APPLICANT                   |
|-----------------|--------------------|----------------|-------------------------------------------------------------------------|--------------|---------|--------------|---------------|----------------------------------|-------------------------------------|
| 5867.004<br>PRV | Prov -<br>ORG      | 61/769,68<br>4 | SYNCHRONIZED<br>CHARGE PUMP-<br>DRIVEN INPUT<br>BUFFER AND<br>METHOD    | Feb 26, 2013 | Expired |              |               | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.004<br>US1 | Utility -<br>NPNEW | 14/169,08<br>4 | SYNCHRONIZED<br>CHARGE PUMP-<br>DRIVEN INPUT<br>BUFFER AND<br>METHOD    | Jan 30, 2014 | Issued  | May 15, 2018 | 9,973,079     | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.009<br>PRV | Prov -<br>ORG      | 62/126,83<br>3 | INPUT CURRENT<br>CONDITIONER<br>FOR PRECISION<br>COULOMB<br>COUNTING    | Mar 2, 2015  | Expired |              |               | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.009<br>US1 | Utility -<br>NPNEW | 14/805,75<br>7 | INPUT CURRENT<br>CONDITIONER<br>FOR PRECISION<br>COULOMB<br>COUNTING    | Jul 22, 2015 | Issued  | Dec 19, 2017 | 9,846,196     | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.010<br>PRV | Prov -<br>ORG      | 62/168,15<br>6 | MAINTAINING<br>LED DRIVER<br>OPERATING<br>POINT DURING<br>PWM OFF TIMES | May 29, 2015 | Expired |              |               | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                     |              |         |              |           |                                  |                                     |
|-----------------|--------------------|----------------|-----------------------------------------------------------------------------------------------------|--------------|---------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.010<br>US1 | Utility -<br>NPNEW | 15/147,83<br>4 | MAINTAINING<br>LED DRIVER<br>OPERATING<br>POINT DURING<br>PWM OFF TIMES                             | May 5, 2016  | Issued  | May 2, 2017  | 9,642,200 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.011<br>PRV | Prov -<br>ORG      | 62/168,23<br>4 | MAINTAINING<br>OUTPUT<br>CAPACITANCE<br>VOLTAGE IN LED<br>DRIVER DURING<br>PWM OFF TIMES            | May 29, 2015 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.011<br>US1 | Utility -<br>NPNEW | 15/147,84<br>2 | MAINTAINING<br>OUTPUT<br>CAPACITANCE<br>VOLTAGE IN LED<br>DRIVER SYSTEMS<br>DURING PWM<br>OFF TIMES | May 5, 2016  | Issued  | Mar 14, 2017 | 9,596,728 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.013<br>US1 | Utility -<br>ORG   | 15/446,70<br>2 | ANALOG TO<br>DIGITAL<br>CONVERSION<br>YIELDING<br>EXPONENTIAL<br>RESULTS                            | Mar 1, 2017  | Issued  | Jan 2, 2018  | 9,859,909 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |            |                                                                                                                 |              |         |              |           |                                  |                                     |
|-----------------|--------------------|------------|-----------------------------------------------------------------------------------------------------------------|--------------|---------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.014<br>US1 | Utility -<br>ORG   | 13/325,959 | PRIMARY UNIT<br>CONTROL OF<br>RESONANT<br>INDUCTIVE<br>POWER<br>TRANSFER<br>SYSTEM FOR<br>OPTIMUM<br>EFFICIENCY | Dec 14, 2011 | Issued  | May 26, 2015 | 9,041,254 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.015<br>US1 | Utility -<br>ORG   | 13/155,945 | SYSTEM AND<br>METHODS TO<br>IMPROVE THE<br>PERFORMANCE<br>OF<br>SEMICONDUCTO<br>R BASED<br>SAMPLING<br>SYSTEM   | Jun 8, 2011  | Issued  | May 13, 2014 | 8,723,556 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.017<br>PRV | Prov -<br>ORG      | 61/550,128 | OPTIMIZED BI-<br>DIRECTIONAL<br>BALANCING<br>METHOD AND<br>SYSTEM                                               | Oct 21, 2011 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.017<br>US1 | Utility -<br>NPREG | 13/426,277 | OPTIMIZED BI-<br>DIRECTIONAL<br>BALANCING<br>METHOD AND<br>SYSTEM                                               | Mar 21, 2012 | Issued  | Jul 1, 2014  | 8,766,597 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.018<br>PRV | Prov -<br>ORG      | 61/780,727 | LEAKAGE<br>COMPENSATION<br>FOR SWITCHED<br>CAPACITOR<br>INTEGRATORS                                             | Mar 13, 2013 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |                |                                                                                        |              |         |              |           |                                  |                                     |
|-----------------|------------------|----------------|----------------------------------------------------------------------------------------|--------------|---------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.018<br>US1 | Utility -<br>ORG | 13/871,98<br>1 | LEAKAGE<br>COMPENSATION<br>FOR SWITCHED<br>CAPACITOR<br>INTEGRATORS                    | Apr 26, 2013 | Issued  | Sep 23, 2014 | 8,841,962 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.019<br>US1 | Utility -<br>ORG | 13/843,57<br>2 | METHODS AND<br>SYSTEMS FOR<br>CONTROL OF DC-<br>DC CONVERTERS                          | Mar 15, 2013 | Issued  | Feb 7, 2017  | 9,564,820 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.020<br>US1 | Utility -<br>ORG | 13/734,58<br>1 | METHOD AND<br>SYSTEM FOR<br>MEASURING THE<br>RESISTANCE OF<br>A RESISTIVE<br>STRUCTURE | Jan 4, 2013  | Issued  | Feb 3, 2015  | 8,947,101 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.021<br>US1 | Utility -<br>ORG | 13/242,83<br>6 | STACKABLE BI-<br>DIRECTIONAL<br>MULTICELL<br>BATTERY<br>BALANCER                       | Sep 23, 2011 | Issued  | Apr 8, 2014  | 8,692,516 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.022<br>PRV | Prov -<br>ORG    | 61/144,21<br>6 | POLARITY<br>INDEPENDENT,<br>ULTRA-LOW<br>INPUT VOLTAGE<br>STEP-UP<br>CONVERTER         | Jan 13, 2009 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |            |                                                                                                                                                             |              |         |              |           |                                  |                                     |
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| 5867.022<br>PV2 | Prov -<br>ORG      | 61/256,628 | POLARITY<br>INDEPENDENT,<br>ULTRA-LOW<br>INPUT VOLTAGE<br>STEP-UP<br>CONVERTER                                                                              | Oct 30, 2009 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.022<br>US1 | Utility -<br>NPREG | 12/686,749 | METHOD AND<br>SYSTEM FOR<br>POLARITY<br>INDEPENDENT<br>STEP-UP<br>CONVERTER<br>CAPABLE OF<br>OPERATING<br>UNDER ULTRA-<br>LOW INPUT<br>VOLTAGE<br>CONDITION | Jan 13, 2010 | Issued  | Apr 26, 2016 | 9,325,250 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.023<br>PRV | Prov -<br>ORG      | 61/480,832 | CLOCK-<br>INSENSITIVE,<br>GALVANICALLY-<br>ISOLATED SERIAL<br>COMMUNICATI<br>ONS                                                                            | Apr 29, 2011 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.023<br>US1 | Utility -<br>NPREG | 13/458,765 | ISOLATED<br>COMMUNICATI<br>ONS INTERFACE                                                                                                                    | Apr 27, 2012 | Issued  | Dec 9, 2014  | 8,908,779 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.030<br>US1 | Utility -<br>ORG   | 13/465,722 | LOW POWER<br>TIMING,<br>CONFIGURING,<br>AND<br>SCHEDULING                                                                                                   | May 7, 2012  | Issued  | Jan 27, 2015 | 8,943,352 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                |              |         |              |            |                                  |                                     |
|-----------------|--------------------|----------------|------------------------------------------------------------------------------------------------|--------------|---------|--------------|------------|----------------------------------|-------------------------------------|
| 5867.030<br>US2 | Utility -<br>DIV   | 14/524,84<br>4 | LOW POWER<br>TIMING,<br>CONFIGURING,<br>AND<br>SCHEDULING                                      | Oct 27, 2014 | Issued  | Oct 10, 2017 | 9,785,219  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.030<br>US3 | Utility -<br>CON   | 15/728,45<br>3 | LOW POWER<br>TIMING,<br>CONFIGURING,<br>AND<br>SCHEDULING                                      | Oct 9, 2017  | Issued  | Dec 11, 2018 | 10,152,111 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.030<br>US4 | Utility -<br>DIV   | 14/526,27<br>1 | LOW POWER<br>TIMING,<br>CONFIGURING,<br>AND<br>SCHEDULING                                      | Oct 28, 2014 | Issued  | Aug 11, 2015 | 9,104,418  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.031<br>PRV | Prov -<br>ORG      | 62/002,47<br>3 | NOVEL BALUN<br>TOPOLOGIES<br>FOR HIGH<br>FREQUENCY,<br>BROADBAND RF<br>INTEGRATED<br>CIRCUITS  | May 23, 2014 | Expired |              |            | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.031<br>US1 | Utility -<br>NPREG | 14/632,69<br>2 | BROADBAND<br>INTEGRATED<br>RF/MICROWAVE<br>/MILLIMETER<br>MIXER WITH<br>INTEGRATED<br>BALUN(S) | Feb 26, 2015 | Issued  | Apr 12, 2016 | 9,312,815  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.032<br>PRV | Prov -<br>ORG      | 61/994,67<br>1 | RADIO RECEIVER                                                                                 | May 16, 2014 | Expired |              |            | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |



|                 |                    |                |                                                                       |              |         |              |                |                                  |                                     |
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| 5867.032<br>US1 | Utility -<br>NPREG | 14/714,15<br>5 | RADIO RECEIVER                                                        | May 15, 2015 | Issued  | Nov 15, 2016 | 9,496,840      | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.033<br>PRV | Prov -<br>ORG      | 61/977,48<br>6 | HARDWARE-<br>BASED<br>LICENSING FOR<br>WIRELESS<br>NETWORKS           | Apr 9, 2014  | Expired |              |                | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.033<br>US1 | Utility -<br>NPREG | 14/682,05<br>4 | HARDWARE-<br>BASED<br>LICENSING FOR<br>WIRELESS<br>NETWORKS           | Apr 8, 2015  | Issued  | Jul 24, 2018 | 10,033,59<br>6 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.034<br>PRV | Prov -<br>ORG      | 61/980,89<br>1 | VOLTAGE<br>REGULATION IN<br>RESONANT<br>POWER<br>WIRELESS<br>RECEIVER | Apr 17, 2014 | Expired |              |                | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.034<br>US1 | Utility -<br>NPREG | 14/531,52<br>0 | VOLTAGE<br>REGULATION IN<br>RESONANT<br>POWER<br>WIRELESS<br>RECEIVER | Nov 3, 2014  | Issued  | Nov 21, 2017 | 9,825,553      | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.035<br>PRV | Prov -<br>ORG      | 61/450,51<br>6 | NONVOLATILE<br>MEMORY USE IN<br>LOW POWER<br>APPLICATIONS             | Mar 8, 2011  | Expired |              |                | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |            |                                                                                                                 |              |         |              |           |                                  |                                     |
|-----------------|--------------------|------------|-----------------------------------------------------------------------------------------------------------------|--------------|---------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.035<br>US1 | Utility -<br>NPREG | 13/415,548 | METHODS AND<br>SYSTEM FOR<br>ERASING DATA<br>STORED IN<br>NONVOLATILE<br>MEMORY IN<br>LOW POWER<br>APPLICATIONS | Mar 8, 2012  | Issued  | Dec 30, 2014 | 8,924,633 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.036<br>US1 | Utility -<br>ORG   | 13/595,600 | FREQUENCY<br>MIXER<br>TOPOLOGY<br>PROVIDING<br>HIGH LINEARITY,<br>LOW NOISE AND<br>HIGH GAIN                    | Aug 27, 2012 | Issued  | Oct 15, 2013 | 8,558,605 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.038<br>PRV | Prov -<br>ORG      | 62/165,873 | BLINK MODE<br>SENSOR NODE<br>OPERATION FOR<br>WIRELESS<br>NETWORKS                                              | May 22, 2015 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.039<br>PRV | Prov -<br>ORG      | 61/937,380 | ARBITRARY<br>PHASE<br>TRAJECTORY<br>TRANSMITTER                                                                 | Feb 7, 2014  | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.039<br>US1 | Utility -<br>NPREG | 14/616,192 | ARBITRARY<br>PHASE<br>TRAJECTORY<br>FREQUENCY<br>SYNTHESIZER                                                    | Feb 6, 2015  | Issued  | Mar 29, 2016 | 9,300,307 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.040<br>US1 | Utility -<br>ORG | 13/866,75<br>1 | MONITORING<br>OF CHANNEL<br>STABILITY AND<br>INTERFERENCE<br>IN WIRELESS<br>NETWORKS                                                                                                    | Apr 19, 2013 | Issued  | Jan 14, 2020 | 10,536,86<br>1 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.040<br>US2 | Utility -<br>CON | 15/886,75<br>4 | MONITORING<br>OF CHANNEL<br>STABILITY AND<br>INTERFERENCE<br>IN WIRELESS<br>NETWORKS                                                                                                    | Feb 1, 2018  | Issued  | Mar 17, 2020 | 10,595,21<br>6 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.041<br>PRV | Prov -<br>ORG    | 62/119,04<br>2 | FAST TRANSIENT<br>POWER SUPPLY<br>WITH A FIRST<br>CONTROL<br>SIGNAL FOR A<br>HIGHER<br>FREQUENCY<br>CURRENT AND A<br>SECOND<br>CONTROL<br>SIGNAL FOR A<br>LOWER<br>FREQUENCY<br>CURRENT | Feb 20, 2015 | Expired |              |                | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.041<br>US1 | Utility -<br>NPREG | 15/048,59<br>1 | FAST TRANSIENT<br>POWER SUPPLY<br>WITH A<br>SEPARATED<br>HIGH<br>FREQUENCY<br>AND LOW<br>FREQUENCY<br>PATH SIGNALS | Feb 19, 2016 | Issued  | Nov 28, 2017 | 9,831,781      | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.042<br>PRV | Prov -<br>ORG      | 62/119,07<br>8 | CONTROL<br>ARCHITECTURE<br>WITH<br>IMPROVED<br>TRANSIENT<br>RESPONSE                                               | Feb 20, 2015 | Expired |              |                | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.042<br>US1 | Utility -<br>NPREG | 15/048,51<br>1 | CONTROL<br>ARCHITECTURE<br>WITH<br>IMPROVED<br>TRANSIENT<br>RESPONSE                                               | Feb 19, 2016 | Issued  | Apr 18, 2017 | 9,627,976      | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.042<br>US2 | Utility -<br>CON   | 15/463,20<br>0 | CONTROL<br>ARCHITECTURE<br>WITH<br>IMPROVED<br>TRANSIENT<br>RESPONSE                                               | Mar 20, 2017 | Issued  | Nov 20, 2018 | 10,135,33<br>6 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                                                                                                         |              |         |              |           |                                  |                                     |
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| 5867.043<br>PRV | Prov -<br>ORG      | 62/126,41<br>8 | FAST TRANSIENT<br>POWER SUPPLY<br>WITH A FIRST<br>CONTROL<br>SIGNAL FOR A<br>HIGHER<br>FREQUENCY<br>CURRENT AND A<br>SECOND<br>CONTROL<br>SIGNAL FOR A<br>LOWER<br>FREQUENCY<br>CURRENT | Feb 27, 2015 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.044<br>PRV | Prov -<br>ORG      | 62/126,42<br>1 | CONTROL<br>ARCHITECTURE<br>WITH<br>IMPROVED<br>TRANSIENT<br>RESPONSE                                                                                                                    | Feb 27, 2015 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.045<br>PRV | Prov -<br>ORG      | 61/994,53<br>7 | CONFIGURING<br>MULTI-RATE<br>SYSTEMS                                                                                                                                                    | May 16, 2014 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.045<br>US1 | Utility -<br>NPREG | 14/712,53<br>9 | CONFIGURING<br>SIGNAL-<br>PROCESSING<br>SYSTEMS                                                                                                                                         | May 14, 2015 | Issued  | Oct 18, 2016 | 9,472,304 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.046<br>US1 | Utility -<br>ORG   | 12/475,184 | MONOLITHIC<br>VOLTAGE<br>REFERENCE<br>DEVICE WITH<br>INTERNAL,<br>MULTI-<br>TEMPERATURE<br>DRIFT DATA AND<br>RELATED<br>TESTING<br>PROCEDURES | May 29, 2009 | Issued  | Apr 5, 2011  | 7,920,016  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.049<br>US1 | Utility -<br>ORG   | 13/828,511 | ADDRESS<br>TRANSLATION IN<br>I2C DATA<br>COMMUNICATI<br>ONS SYSTEM                                                                            | Mar 14, 2013 | Issued  | Sep 20, 2016 | 9,448,960  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.050<br>PRV | Prov -<br>ORG      | 61/845,491 | INRUSH<br>CONTROL WITH<br>MULTIPLE<br>SWITCHES                                                                                                | Jul 12, 2013 | Expired |              |            | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.050<br>US1 | Utility -<br>NPREG | 14/300,999 | INRUSH<br>CONTROL WITH<br>MULTIPLE<br>SWITCHES                                                                                                | Jun 10, 2014 | Issued  | Jun 19, 2018 | 10,003,190 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.051<br>PRV | Prov -<br>ORG      | 61/979,139 | REDUCING OR<br>ELIMINATING<br>DIELECTRIC<br>ABSORPTION<br>EFFECTS                                                                             | Apr 14, 2014 | Expired |              |            | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |            |                                                                                      |              |         |              |           |                                  |                                     |
|-----------------|--------------------|------------|--------------------------------------------------------------------------------------|--------------|---------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.051<br>US1 | Utility -<br>NPREG | 14/472,160 | SUPPRESSING<br>DIELECTRIC<br>ABSORPTION<br>EFFECTS IN<br>SAMPLE-AND-<br>HOLD SYSTEMS | Aug 28, 2014 | Issued  | Nov 24, 2015 | 9,197,235 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.052<br>PRV | Prov -<br>ORG      | 61/845,502 | DETECTING<br>FAULTS IN HOT-<br>SWAP<br>APPLICATIONS                                  | Jul 12, 2013 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.052<br>US1 | Utility -<br>NPREG | 14/301,043 | DETECTING<br>FAULTS IN HOT-<br>SWAP<br>APPLICATIONS                                  | Jun 10, 2014 | Issued  | Jun 6, 2017  | 9,671,465 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.053<br>PRV | Prov -<br>ORG      | 61/636,372 | ANALOG-TO-<br>DIGITAL<br>CONVERTER                                                   | Apr 20, 2012 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.053<br>US1 | Utility -<br>NPREG | 13/553,092 | ANALOG-TO-<br>DIGITAL<br>CONVERTER<br>SYSTEM AND<br>METHOD                           | Jul 19, 2012 | Issued  | Aug 19, 2014 | 8,810,443 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.053<br>US2 | Utility -<br>DIV   | 14/162,572 | ANALOG-TO-<br>DIGITAL<br>CONVERTER                                                   | Jan 23, 2014 | Issued  | May 3, 2016  | 9,331,709 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.053<br>US3 | Utility -<br>DIV   | 14/162,567 | ANALOG-TO-<br>DIGITAL<br>CONVERTER<br>SYSTEM AND<br>METHOD                           | Jan 23, 2014 | Issued  | Jan 5, 2016  | 9,231,611 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.053<br>US4 | Utility -<br>DIV   | 14/162,559 | ANALOG-TO-<br>DIGITAL<br>CONVERTER<br>SYSTEM AND<br>METHOD                           | Jan 23, 2014 | Issued  | Jun 9, 2015  | 9,054,727 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.057<br>US1 | Utility -<br>ORG   | 13/717,377 | ANTI-ALIASING<br>SAMPLING<br>CIRCUITS AND<br>ANALOG-TO-<br>DIGITAL<br>CONVERTER                           | Dec 17, 2012 | Issued  | Sep 2, 2014  | 8,823,572  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.058<br>PRV | Prov -<br>ORG      | 62/280,897 | CONTROL<br>ARCHITECTURE<br>WITH<br>IMPROVED<br>TRANSIENT<br>RESPONSE                                      | Jan 20, 2016 | Expired |              |            | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.058<br>US1 | Utility -<br>NPREG | 15/407,749 | FAST TRANSIENT<br>SUPPLY WITH A<br>SEPARATED<br>HIGH<br>FREQUENCY<br>AND LOW<br>FREQUENCY<br>PATH SIGNALS | Jan 17, 2017 | Issued  | Jul 24, 2018 | 10,033,301 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.059<br>PRV | Prov -<br>ORG      | 62/280,878 | FAST TRANSIENT<br>SUPPLY WITH A<br>SEPARATED<br>HIGH<br>FREQUENCY<br>AND LOW<br>FREQUENCY<br>PATH SIGNALS | Jan 20, 2016 | Expired |              |            | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |



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| 5867.059<br>US1 | Utility -<br>NPREG | 15/199,693 | CONTROL<br>WITH<br>IMPROVED<br>TRANSIENT<br>RESPONSE                                                    | Jun 30, 2016 | Issued  | Aug 14, 2018 | 10,050,559 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.060<br>PRV | Prov -<br>ORG      | 62/261,032 | SYSTEM AND<br>METHOD FOR<br>RIPPLE<br>MONITORING                                                        | Nov 30, 2015 | Expired |              |            | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.060<br>US1 | Utility -<br>NPREG | 15/153,222 | RIPPLE<br>MONITORING                                                                                    | May 12, 2016 | Issued  | May 5, 2020  | 10,641,837 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.061<br>US1 | Utility -<br>ORG   | 13/947,860 | POWER SUPPLY<br>SYSTEM AND<br>METHOD                                                                    | Jul 22, 2013 | Issued  | Oct 25, 2016 | 9,478,982  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.062<br>US1 | Utility -<br>ORG   | 15/167,345 | EXPOSED<br>SOLDERABLE<br>HEAT SPREADER<br>FOR FLIPCHIP<br>PACKAGES                                      | May 27, 2016 | Issued  | Mar 10, 2020 | 10,586,757 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.063<br>US2 | Utility -<br>DIV   | 15/154,489 | LASER DRILLING<br>ENCAPSULATED<br>SEMICONDUCTOR<br>DIE TO EXPOSE<br>ELECTRICAL<br>CONNECTION<br>THEREIN | May 13, 2016 | Issued  | Jun 27, 2017 | 9,691,681  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.063<br>USR | Utility -<br>REIS  | 16/116,689 | EXPOSED,<br>SOLDERABLE<br>HEAT SPREADER<br>FOR<br>INTEGRATED<br>CIRCUIT<br>PACKAGES                                                              | Aug 29, 2018 | Pending     |  |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.064<br>PRV | Prov -<br>ORG      | 62/327,875 | MECHANICALLY-<br>COMPLIANT<br>AND<br>ELECTRICALLY<br>AND<br>THERMALLY<br>CONDUCTIVE<br>LEADFRAMES<br>FOR<br>COMPONENT-<br>ON-PACKAGE<br>CIRCUITS | Apr 26, 2016 | Transferred |  |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.064<br>US2 | Utility -<br>NPREG | 15/495,405 | MECHANICALLY-<br>COMPLIANT<br>AND<br>ELECTRICALLY<br>AND<br>THERMALLY<br>CONDUCTIVE<br>LEADFRAMES<br>FOR<br>COMPONENT-<br>ON-PACKAGE<br>CIRCUITS | Apr 24, 2017 | Transferred |  |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.067<br>PRV | Prov -<br>ORG      | 62/346,88<br>1 | TRANSFORMER-<br>BASED HYBRID<br>PULSE WIDTH<br>MODULATION<br>POWER<br>CONVERTERS                      | Jun 7, 2016  | Expired |             |                |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.067<br>US1 | Utility -<br>NPREG | 15/611,00<br>3 | HYBRID POWER<br>CONVERTERS<br>COMBINING<br>SWITCHED-<br>CAPACITOR AND<br>TRANSFORMER-<br>BASED STAGES | Jun 1, 2017  | Issued  | May 7, 2019 | 10,284,09<br>9 |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.073<br>US1 | Utility -<br>ORG   | 15/135,35<br>9 | ENERGY<br>STORAGE<br>DEVICE STACK<br>BALANCING<br>USING<br>SWITCHED<br>INDUCTOR<br>BACKGROUND         | Apr 21, 2016 | Issued  | Jan 8, 2019 | 10,177,58<br>0 |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.074<br>PRV | Prov -<br>ORG      | 61/727,40<br>8 | SWITCHING<br>REGULATOR<br>WITH<br>IMPROVED<br>TRANSIENT<br>RESPONSE                                   | Nov 16, 2012 | Expired |             |                |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.074<br>US1 | Utility -<br>NPREG | 13/764,04<br>5 | FEED FORWARD<br>CURRENT MODE<br>SWITCHING<br>REGULATOR<br>WITH<br>IMPROVED<br>TRANSIENT<br>RESPONSE                                                 | Feb 11, 2013 | Issued  | Jul 3, 2018  | 10,013,00<br>3 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.074<br>US2 | Utility -<br>CON   | 15/585,39<br>9 | CURRENT MODE<br>SWITCHING<br>REGULATOR<br>AND OPERATING<br>METHOD WITH<br>OFFSET<br>CIRCUITRY TO<br>EMULATE A<br>TRANSIENT<br>LOAD STEP<br>RESPONSE | May 3, 2017  | Issued  | Jan 14, 2020 | 10,534,38<br>4 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.078<br>PRV | Prov -<br>ORG      | 62/363,02<br>5 | BALANCING AND<br>DRIVING<br>CHARGE PUMP<br>CIRCUITS                                                                                                 | Jul 15, 2016 | Expired |              |                | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.078<br>US1 | Utility -<br>NPREG | 15/465,50<br>4 | DRIVING<br>CHARGE PUMP<br>CIRCUITS                                                                                                                  | Mar 21, 2017 | Issued  | Oct 15, 2019 | 10,447,15<br>2 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.079<br>PRV | Prov -<br>ORG      | 61/736,86<br>1 | DC/DC<br>CONVERTER FOR<br>GENERATING<br>BOTH POSITIVE<br>AND NEGATIVE<br>OUTPUT<br>VOLTAGES | Dec 13, 2012 | Expired |              |                | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.079<br>US1 | Utility -<br>NPREG | 13/851,25<br>0 | POWER<br>CONVERTER FOR<br>GENERATING<br>BOTH POSITIVE<br>AND NEGATIVE<br>OUTPUT<br>SIGNALS  | Mar 27, 2013 | Issued  | May 10, 2016 | 9,337,731      | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.082<br>PRV | Prov -<br>ORG      | 62/135,55<br>3 | SPREAD<br>SPECTRUM FOR<br>SWITCH MODE<br>POWER<br>SUPPLIES                                  | Mar 19, 2015 | Expired |              |                | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.082<br>US1 | Utility -<br>NPREG | 14/869,11<br>4 | SPREAD<br>SPECTRUM FOR<br>SWITCH MODE<br>POWER<br>SUPPLIES                                  | Sep 29, 2015 | Issued  | Apr 28, 2020 | 10,637,25<br>4 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.083<br>US1 | Utility -<br>ORG   | 12/470,932 | CHOPPER<br>STABILIZED<br>BANDGAP<br>REFERENCE<br>CIRCUIT AND<br>METHODODOLOGY<br>FOR VOLTAGE<br>REGULATORS | May 22, 2009 | Issued  | Aug 23, 2011 | 8,004,266  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.084<br>US1 | Utility -<br>NPREG | 15/465,487 | BALANCING<br>TECHNIQUES<br>AND CIRCUITS<br>FOR CHARGE<br>PUMPS                                             | Mar 21, 2017 | Issued  | Nov 5, 2019  | 10,468,978 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.085<br>US1 | Utility -<br>NPREG | 15/465,339 | BALANCING<br>CHARGE PUMP<br>CIRCUITS                                                                       | Mar 21, 2017 | Issued  | Jun 12, 2018 | 9,998,000  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.088<br>US1 | Utility -<br>ORG   | 13/559,909 | PHASE NOISE<br>TOLERANT<br>SAMPLING                                                                        | Jul 27, 2012 | Issued  | Oct 15, 2013 | 8,558,728  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.089<br>PRV | Prov -<br>ORG      | 62/054,587 | DCR INDUCTOR<br>CURRENT<br>SENSING FOR 4<br>SWITCH BUCK-<br>BOOST<br>CONVERTERS                            | Sep 24, 2014 | Expired |              |            | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.089<br>US1 | Utility -<br>NPREG | 14/677,794 | DCR INDUCTOR<br>CURRENT-<br>SENSING IN<br>FOUR-SWITCH<br>BUCK-BOOST<br>CONVERTERS                          | Apr 2, 2015  | Issued  | Aug 29, 2017 | 9,748,843  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                                            |              |         |              |                |                                  |                                     |
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| 5867.089<br>US2 | Utility -<br>DIV   | 15/654,56<br>8 | DCR INDUCTOR<br>CURRENT-<br>SENSING IN<br>FOUR-SWITCH<br>BUCK-BOOST<br>CONVERTERS                                          | Jul 19, 2017 | Issued  | Sep 25, 2018 | 10,084,38<br>1 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.091<br>PRV | Prov -<br>ORG      | 62/239,63<br>2 | CIRCUIT AND<br>ARRANGEMENT<br>FOR 3-WIRE<br>MEASUREMENT<br>S WITH INPUT<br>PROTECTION                                      | Oct 9, 2015  | Expired |              |                | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.091<br>US1 | Utility -<br>NPREG | 15/175,97<br>4 | CIRCUIT AND<br>ARRANGEMENT<br>FOR 3-WIRE<br>MEASUREMENT<br>S WITH INPUT<br>PROTECTION                                      | Jun 7, 2016  | Issued  | Jul 17, 2018 | 10,024,72<br>8 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.092<br>PRV | Prov -<br>ORG      | 62/255,04<br>3 | DOUBLE<br>BALANCED FET<br>MIXER WITH<br>DIRECT SINGLE-<br>ENDED IF<br>PROVIDING<br>HIGH LINEARITY<br>AND HIGH<br>ISOLATION | Nov 13, 2015 | Expired |              |                | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |            |                                                                                                       |              |             |              |           |                               |                               |
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| 5867.092<br>US1 | Utility -<br>NPREG | 15/158,339 | DOUBLE-BALANCED FIELD-EFFECT TRANSISTOR MIXER WITH DIRECT SINGLE-ENDED INTERMEDIATE FREQUENCY OUTPUTS | May 18, 2016 | Issued      | Sep 26, 2017 | 9,774,297 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.093<br>US1 | Utility -<br>ORG   | 15/465,562 | UNITY GAIN BUFFER WITH TWO STATES                                                                     | Mar 21, 2017 | Transferred |              |           | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.094<br>US1 | Utility -<br>ORG   | 15/473,533 | TRANS-IMPEDANCE AMPLIFIER WITH FAST OVERDRIVE RECOVERY                                                | Mar 29, 2017 | Transferred |              |           | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.095<br>PRV | Prov -<br>ORG      | 61/824,819 | RESOLUTION-BOOSTED SIGMA DELTA ANALOG-TO-DIGITAL CONVERTER                                            | May 17, 2013 | Expired     |              |           | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.095<br>US1 | Utility -<br>NPREG | 14/052,479 | RESOLUTION-BOOSTED SIGMA DELTA ANALOG-TO-DIGITAL CONVERTER                                            | Oct 11, 2013 | Issued      | Jul 7, 2015  | 9,077,374 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.096<br>PRV | Prov -<br>ORG      | 61/894,764 | ISOLATED BOOTSTRAPPED SWITCH                                                                          | Oct 23, 2013 | Expired     |              |           | Linear Technology Holding LLC | Linear Technology Corporation |



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| 5867.096<br>US1 | Utility -<br>NPREG | 14/157,300 | ISOLATED<br>BOOTSTRAPPED<br>SWITCH                                                        | Jan 16, 2014 | Issued  | Oct 27, 2015 | 9,172,364 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.097<br>PRV | Prov -<br>ORG      | 61/897,067 | BIPOLAR<br>ISOLATED HIGH<br>VOLTAGE<br>SAMPLING<br>NETWORK                                | Oct 29, 2013 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.097<br>US1 | Utility -<br>NPREG | 14/157,316 | BIPOLAR<br>ISOLATED HIGH<br>VOLTAGE<br>SAMPLING<br>NETWORK                                | Jan 16, 2014 | Issued  | Nov 18, 2014 | 8,890,577 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.098<br>PRV | Prov -<br>ORG      | 61/767,628 | HIGH-<br>FREQUENCY<br>RMS-DC<br>CONVERTER<br>USING CHOPPER<br>STABILIZED<br>SQUARE CELLS  | Feb 21, 2013 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.098<br>US1 | Utility -<br>NPREG | 14/092,131 | HIGH-<br>FREQUENCY<br>RMS-DC<br>CONVERTER<br>USING CHOPPER-<br>STABILIZED<br>SQUARE CELLS | Nov 27, 2013 | Issued  | May 3, 2016  | 9,330,283 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.098<br>US2 | Utility -<br>DIV   | 14/854,635 | CHOPPER-<br>STABILIZED<br>SQUARE CELLS                                                    | Sep 15, 2015 | Issued  | May 2, 2017  | 9,639,719 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.104<br>US1 | Utility -<br>ORG   | 13/550,033 | LOW POWER<br>RADIO RECEIVER                                                               | Jul 16, 2012 | Issued  | Jan 26, 2016 | 9,246,436 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.104<br>US2 | Utility -<br>CON   | 14/981,75<br>5 | LOW POWER<br>RADIO RECEIVER                                                            | Dec 28, 2015 | Issued  | Mar 14, 2017 | 9,595,991      | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.105<br>PRV | Prov -<br>ORG      | 62/257,05<br>8 | ACTIVE<br>RESISTOR WITH<br>REDUCED NOISE                                               | Nov 18, 2015 | Expired |              |                | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.105<br>US1 | Utility -<br>NPREG | 15/236,36<br>5 | ACTIVE<br>DIFFERENTIAL<br>RESISTORS WITH<br>REDUCED NOISE                              | Aug 12, 2016 | Issued  | Jan 9, 2018  | 9,866,245      | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.105<br>US2 | Utility -<br>DIV   | 15/834,04<br>7 | ACTIVE<br>DIFFERENTIAL<br>RESISTORS WITH<br>REDUCED NOISE                              | Dec 6, 2017  | Issued  | Feb 26, 2019 | 10,218,39<br>4 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.106<br>PRV | Prov -<br>ORG      | 60/646,50<br>9 | SYSTEM AND<br>METHOD FOR<br>SUPPORTING<br>ADVANCED<br>POWER OVER<br>ETHERNET<br>SYSTEM | Jan 25, 2005 | Expired |              |                | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.106<br>US1 | Utility -<br>NPREG | 11/267,261 | COMBINATION<br>OF HIGH-SIDE<br>AND LOW-SIDE<br>CURRENT<br>SENSING IN<br>SYSTEM FOR<br>PROVIDING<br>POWER OVER<br>COMMUNICATI<br>ON LINK | Nov 7, 2005 | Issued | Sep 16, 2008 | 7,426,374 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.112<br>US1 | Utility -<br>ORG   | 13/155,993 | SYSTEM AND<br>METHODS TO<br>IMPROVE THE<br>PERFORMANCE<br>OF<br>SEMICONDUCTO<br>R BASED<br>SAMPLING<br>SYSTEM                           | Jun 8, 2011 | Issued | Jul 22, 2014 | 8,786,318 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.117<br>US1 | Utility -<br>ORG   | 13/646,571 | SYSTEM AND<br>METHOD FOR<br>INPUT VOLTAGE<br>REGULATION OF<br>SWITCH MODE<br>SUPPLIES<br>IMPLEMENTING<br>BURST MODE<br>OPERATION        | Oct 5, 2012 | Issued | Jan 26, 2016 | 9,246,383 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                                                               |              |         |              |           |                                  |                                     |
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| 5867.118<br>US1 | Utility -<br>ORG   | 12/202,83<br>5 | SEMICONDUCTOR<br>DEVICE<br>HAVING A<br>SUSPENDED<br>ISOLATING<br>INTERCONNECT                                                                 | Sep 2, 2008  | Issued  | Mar 8, 2011  | 7,902,665 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.120<br>PRV | Prov -<br>ORG      | 61/866,33<br>4 | CURRENT<br>SENSING FOR H-<br>BRIDGE<br>APPLICATIONS                                                                                           | Aug 15, 2013 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.120<br>US1 | Utility -<br>NPREG | 14/148,55<br>0 | ACCURATE<br>CURRENT<br>SENSING IN H-<br>BRIDGE<br>APPLICATIONS<br>WITHOUT<br>AMPLIFIER<br>HAVING HIGH<br>COMMON<br>MODE<br>REJECTION<br>RATIO | Jan 6, 2014  | Issued  | Jan 19, 2016 | 9,240,718 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.122<br>US1 | Utility -<br>ORG   | 13/734,48<br>5 | LOW CURRENT<br>DC-DC<br>CONVERTER<br>WITH<br>INTEGRATED<br>LOW CURRENT<br>COULOMB<br>COUNTER                                                  | Jan 4, 2013  | Issued  | Sep 15, 2015 | 9,134,744 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.123<br>US1 | Utility -<br>ORG   | 11/827,70<br>4 | PARALLELING<br>VOLTAGE<br>REGULATORS                                                                                                          | Jul 13, 2007 | Issued  | Jan 5, 2010  | 7,642,759 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                                                                                           |              |         |              |           |                                  |                                     |
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| 5867.123<br>US2 | Utility -<br>CON   | 12/541,55<br>7 | PARALLELING<br>VOLTAGE<br>REGULATORS                                                                                                                                      | Aug 14, 2009 | Issued  | Feb 19, 2013 | 8,378,657 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.127<br>PRV | Prov -<br>ORG      | 61/550,65<br>5 | POWER OVER<br>ETHERNET<br>SWITCHED<br>SPARE PAIR                                                                                                                          | Oct 24, 2011 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.127<br>US1 | Utility -<br>NPREG | 13/657,41<br>2 | SWITCHING OF<br>CONDUCTOR<br>PAIR IN POWER<br>OVER ETHERNET<br>SYSTEM                                                                                                     | Oct 22, 2012 | Issued  | May 23, 2017 | 9,660,456 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.133<br>PRV | Prov -<br>ORG      | 61/809,19<br>2 | FLOAT VOLTAGE<br>COMPENSATED<br>ACTIVE CELL<br>BALANCER<br>MAXIMIZES<br>BATTERY<br>CAPACITY<br>RECOVERY AND<br>IMPROVES<br>SAFETY IN<br>BATTERY STACK<br>MODULE<br>DESIGN | Apr 5, 2013  | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.133<br>US1 | Utility -<br>NPREG | 14/245,39<br>0 | VOLTAGE<br>COMPENSATED<br>ACTIVE CELL<br>BALANCING                                                                                                                        | Apr 4, 2014  | Issued  | Sep 26, 2017 | 9,774,206 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.134<br>US1 | Utility -<br>ORG   | 09/135,22<br>4 | DELTA-SIGMA<br>MODULATOR<br>WITH<br>IMPROVED FULL-<br>SCALE<br>ACCURACY | Aug 17, 1998 | Issued  | Oct 31, 2000 | 6,140,950 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.135<br>PRV | Prov -<br>ORG      | 62/326,33<br>4 | SWITCHABLE<br>TERMINATION<br>WITH MULTIPLE<br>RESISTANCE<br>SELECTIONS  | Apr 22, 2016 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.135<br>US1 | Utility -<br>NPREG | 15/493,49<br>5 | SWITCHABLE<br>TERMINATION<br>WITH MULTIPLE<br>IMPEDANCE<br>SELECTIONS   | Apr 21, 2017 | Issued  | May 1, 2018  | 9,960,752 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.136<br>PRV | Prov -<br>ORG      | 61/216,20<br>2 | TIMING<br>SYNCHRONIZATI<br>ON FOR<br>WIRELESS<br>NETWORKS               | May 13, 2009 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.136<br>US1 | Utility -<br>NPREG | 12/778,61<br>7 | TIMING<br>SYNCHRONIZATI<br>ON FOR<br>WIRELESS<br>NETWORKS               | May 12, 2010 | Issued  | Apr 15, 2014 | 8,699,406 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.136<br>US2 | Utility -<br>NPREG | 12/778,62<br>4 | TIMING<br>SYNCHRONIZATI<br>ON FOR<br>WIRELESS<br>NETWORKS               | May 12, 2010 | Issued  | Feb 10, 2015 | 8,953,581 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.136<br>US3 | Utility -<br>CON   | 14/586,69<br>2 | TIMING<br>SYNCHRONIZATI<br>ON FOR<br>WIRELESS<br>NETWORKS                                                            | Dec 30, 2014 | Issued  | Apr 24, 2018 | 9,955,443 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.137<br>PRV | Prov -<br>ORG      | 61/480,91<br>5 | MAXIMIZING<br>INPUT<br>IMPEDANCE IN<br>SWITCHED<br>CAPACITOR<br>CIRCUITS                                             | Apr 29, 2011 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.137<br>US1 | Utility -<br>NPREG | 13/457,32<br>0 | SWITCHED<br>CAPACITANCE<br>VOLTAGE<br>DIFFERENTIAL<br>SENSING<br>CIRCUIT WITH<br>NEAR INFINITE<br>INPUT<br>IMPEDANCE | Apr 26, 2012 | Issued  | Nov 10, 2015 | 9,182,428 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.138<br>US1 | Utility -<br>ORG   | 14/336,65<br>3 | TRANSCONDUCT<br>ANCE (GM)<br>BOOSTING<br>TRANSISTOR<br>ARRANGEMENT                                                   | Jul 21, 2014 | Issued  | Feb 14, 2017 | 9,571,052 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.139<br>PRV | Prov -<br>ORG      | 61/002,49<br>5 | METHODS AND<br>CIRCUITS TO<br>ELIMINATE<br>SIGNAL-<br>DEPENDENT<br>MODULATION<br>OF A REFERENCE<br>BIAS              | Nov 9, 2007  | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.139<br>US1 | Utility -<br>NPREG | 12/287,623 | CIRCUITS AND METHODS TO REDUCE OR ELIMINATE SIGNAL-DEPENDENT MODULATION OF A REFERENCE BIAS                                            | Oct 9, 2008  | Issued | Mar 15, 2011 | 7,907,074 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.140<br>US1 | Utility -<br>NPREG | 11/252,567 | ADJUSTING CURRENT LIMIT THRESHOLDS BASED ON POWER REQUIREMENT OF POWERED DEVICE IN SYSTEM FOR PROVIDING POWER OVER COMMUNICATI ON LINK | Oct 19, 2005 | Issued | Sep 19, 2017 | 9,769,090 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.141<br>US1 | Utility -<br>ORG   | 11/373,266 | LED DIMMING CONTROL TECHNIQUE FOR INCREASING THE MAXIMUM PWM DIMMING RATIO AND AVOIDING LED FLICKER                                    | Mar 13, 2006 | Issued | Jan 22, 2008 | 7,321,203 | Linear Technology Holding LLC | Linear Technology Corporation |



|                 |                    |                |                                                       |              |         |              |           |                                  |                                     |
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| 5867.142<br>US1 | Utility -<br>ORG   | 12/332,28<br>8 | CURRENT RIPPLE<br>REDUCTION<br>CIRCUIT FOR<br>LEDS    | Dec 10, 2008 | Issued  | Nov 13, 2012 | 8,310,172 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.143<br>PRV | Prov -<br>ORG      | 60/907,42<br>3 | VOLTAGE<br>STACKABLE<br>DATA PORT                     | Apr 2, 2007  | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.143<br>US1 | Utility -<br>NPREG | 11/896,66<br>9 | MONITORING<br>CELLS IN<br>ENERGY<br>STORAGE<br>SYSTEM | Sep 5, 2007  | Issued  | Feb 23, 2016 | 9,270,133 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.143<br>US2 | Utility -<br>CON   | 13/727,41<br>8 | MONITORING<br>CELLS IN<br>ENERGY<br>STORAGE<br>SYSTEM | Dec 26, 2012 | Issued  | Oct 17, 2017 | 9,793,734 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.144<br>US1 | Utility -<br>ORG   | 10/124,65<br>8 | MULTI-BIT<br>DIGITAL INPUT<br>USING A SINGLE<br>PIN   | Apr 15, 2002 | Issued  | Nov 22, 2005 | 6,967,591 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.144<br>US2 | Utility -<br>DIV   | 11/222,99<br>6 | MULTI-BIT<br>DIGITAL INPUT<br>USING A SINGLE<br>PIN   | Sep 9, 2005  | Issued  | Oct 10, 2006 | 7,119,714 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.144<br>US3 | Utility -<br>DIV   | 11/223,18<br>8 | MULTI-BIT<br>DIGITAL INPUT<br>USING A SINGLE<br>PIN   | Sep 9, 2005  | Issued  | Jul 3, 2007  | 7,239,251 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.147<br>US1 | Utility -<br>ORG   | 14/033,110 | SWITCHING<br>TOPOLOGY FOR<br>CONNECTING<br>TWO NODES IN<br>ELECTRONIC<br>SYSTEM      | Sep 20, 2013 | Issued  | Feb 24, 2015 | 8,963,617 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.148<br>PRV | Prov -<br>ORG      | 61/900,832 | MOSFET<br>PROTECTION<br>METHOD USING<br>RESISTOR-<br>CAPACITOR<br>THERMAL<br>NETWORK | Nov 6, 2013  | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.148<br>US1 | Utility -<br>NPREG | 14/486,697 | MOSFET<br>PROTECTION<br>USING RESISTOR-<br>CAPACITOR<br>THERMAL<br>NETWORK           | Sep 15, 2014 | Issued  | Apr 25, 2017 | 9,634,480 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.148<br>US2 | Utility -<br>DIV   | 15/088,714 | MOSFET<br>PROTECTION<br>USING RESISTOR-<br>CAPACITOR<br>THERMAL<br>NETWORK           | Apr 1, 2016  | Issued  | Apr 25, 2017 | 9,634,481 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.149<br>PRV | Prov -<br>ORG      | 61/727,317 | PRECISION<br>TEMPERATURE<br>MEASUREMENT<br>DEVICES,<br>SENSORS, AND<br>METHODS       | Nov 16, 2012 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                                                                    |              |         |              |           |                                  |                                     |
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| 5867.149<br>US1 | Utility -<br>NPREG | 14/080,62<br>5 | PRECISION<br>TEMPERATURE<br>MEASUREMENT<br>DEVICES,<br>SENSORS, AND<br>METHODS                                                                     | Nov 14, 2013 | Issued  | May 23, 2017 | 9,658,118 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.150<br>PRV | Prov -<br>ORG      | 62/011,67<br>0 | METHOD AND<br>SYSTEM TO<br>CONTROL<br>TRANSITION<br>TIMING OF A<br>SWITCHING<br>DC/DC POWER<br>CONVERTER TO<br>AVOID A<br>SENSITIVE TIME<br>WINDOW | Jun 13, 2014 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.150<br>US1 | Utility -<br>NPREG | 14/733,93<br>2 | TRANSITION<br>TIMING<br>CONTROL FOR<br>SWITCHING<br>DC/DC<br>CONVERTER                                                                             | Jun 8, 2015  | Issued  | May 30, 2017 | 9,667,264 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.151<br>PRV | Prov -<br>ORG      | 62/047,43<br>2 | HIGH VOLTAGE<br>MAXER CIRCUIT<br>WITH NO Q-<br>CURRENT                                                                                             | Sep 8, 2014  | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.151<br>US1 | Utility -<br>NPREG | 14/593,81<br>3 | HIGH VOLTAGE<br>MAXIMUM<br>VOLTAGE<br>SELECTOR<br>CIRCUIT WITH<br>NO QUIESCENT<br>CURRENT                                                          | Jan 9, 2015  | Issued  | Apr 5, 2016  | 9,306,552 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |                |                                                                                                                               |              |         |              |           |                                  |                                     |
|-----------------|------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------|--------------|---------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.151<br>US2 | Utility -<br>CON | 15/019,39<br>4 | HIGH VOLTAGE<br>SELECTOR<br>CIRCUIT WITH<br>NO QUIESCENT<br>CURRENT                                                           | Feb 9, 2016  | Issued  | Jun 20, 2017 | 9,685,938 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.152<br>US1 | Utility -<br>ORG | 11/444,40<br>5 | CONTROLLING<br>SWITCHING<br>CIRCUITS TO<br>BALANCE<br>POWER OR<br>CURRENT<br>DRAWN FROM<br>MULTIPLE<br>POWER SUPPLY<br>INPUTS | Jun 1, 2006  | Issued  | Jul 11, 2017 | 9,705,325 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.154<br>PRV | Prov -<br>ORG    | 61/497,38<br>1 | STACKABLE BI-<br>DIRECTIONAL<br>MULTICELL<br>BATTERY<br>BALANCER                                                              | Jun 15, 2011 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.156<br>US1 | Utility -<br>ORG | 12/795,33<br>0 | STACKED<br>INTERPOSER<br>LEADFRAMES                                                                                           | Jun 7, 2010  | Issued  | Jul 23, 2013 | 8,492,884 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.156<br>US2 | Utility -<br>CON | 13/924,25<br>8 | STACKED<br>INTERPOSER<br>LEADFRAMES                                                                                           | Jun 21, 2013 | Issued  | Dec 30, 2014 | 8,921,159 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |            |                                                                                                                                  |              |         |              |           |                                  |                                     |
|-----------------|--------------------|------------|----------------------------------------------------------------------------------------------------------------------------------|--------------|---------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.157<br>US1 | Utility -<br>ORG   | 11/166,279 | VARIABLE GAIN<br>AMPLIFIER WITH<br>TEMPERATURE<br>COMPENSATION<br>AND GAIN<br>LINEARITY<br>ENHANCEMENT                           | Jun 27, 2005 | Issued  | Aug 28, 2007 | 7,262,661 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.158<br>US1 | Utility -<br>ORG   | 11/731,279 | BANDGAP<br>VOLTAGE AND<br>CURRENT<br>REFERENCE                                                                                   | Mar 30, 2007 | Issued  | Dec 27, 2011 | 8,085,029 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.159<br>PRV | Prov -<br>ORG      | 60/619,007 | SAMPLING<br>CONFIGURATIO<br>N WITH<br>REDUCED<br>AVERAGE INPUT<br>CURRENT                                                        | Oct 18, 2004 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.159<br>US1 | Utility -<br>NPREG | 11/252,388 | ANALOG-TO-<br>DIGITAL<br>CONVERTER<br>WITH REDUCED<br>AVERAGE INPUT<br>CURRENT AND<br>REDUCED<br>AVERAGE<br>REFERENCE<br>CURRENT | Oct 17, 2005 | Issued  | Jan 16, 2007 | 7,164,378 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                   |                                                                                                    |              |           |             |           |                                  |                                     |
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| 5867.159<br>US2 | Utility -<br>NPREG | 11/252,387        | ANALOG SIGNAL<br>SAMPLING<br>SYSTEM AND<br>METHOD<br>HAVING<br>REDUCED<br>AVERAGE INPUT<br>CURRENT | Oct 17, 2005 | Issued    | Aug 8, 2006 | 7,088,280 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.159<br>US3 | Utility -<br>CON   | 11/477,159        | ANALOG SIGNAL<br>SAMPLING<br>SYSTEM AND<br>METHOD<br>HAVING<br>REDUCED<br>AVERAGE INPUT<br>CURRENT | Jun 27, 2006 | Issued    | Sep 2, 2008 | 7,420,491 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.159<br>WO1 | Utility -<br>ORG   | PCT/US2005/037187 | ANALOG SIGNAL<br>SAMPLING<br>SYSTEM AND<br>METHOD<br>HAVING<br>REDUCED<br>AVERAGE INPUT<br>CURRENT | Oct 17, 2005 | Completed |             |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                 |              |        |              |           |                                  |                                     |
|-----------------|--------------------|----------------|---------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.165<br>US1 | Utility -<br>NPREG | 11/252,60<br>7 | DETECTING<br>LEGACY<br>POWERED<br>DEVICE IN<br>POWER OVER<br>ETHERNET<br>SYSTEM | Oct 19, 2005 | Issued | Dec 21, 2010 | 7,856,561 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.167<br>US1 | Utility -<br>ORG   | 11/030,99<br>3 | DC/DC<br>CONVERTER<br>WITH CURRENT<br>LIMIT<br>PROTECTION                       | Jan 10, 2005 | Issued | May 4, 2010  | 7,710,700 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.168<br>US1 | Utility -<br>ORG   | 12/358,56<br>8 | CIRCUITRY AND<br>METHODOLOGY<br>FOR<br>PROTECTING A<br>BOOST DC/DC<br>CONVERTER | Jan 23, 2009 | Issued | Feb 14, 2012 | 8,116,045 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.169<br>US1 | Utility -<br>ORG   | 10/307,20<br>0 | HIGH LINEARITY<br>DIGITAL<br>VARIABLE GAIN<br>AMPLIFIER                         | Nov 29, 2002 | Issued | Jul 4, 2006  | 7,071,784 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.169<br>US2 | Utility -<br>CON   | 11/327,05<br>2 | HIGH LINEARITY<br>DIGITAL<br>VARIABLE GAIN<br>AMPLIFIER                         | Jan 6, 2006  | Issued | Jul 17, 2007 | 7,245,189 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |            |                                                                                                        |              |         |              |           |                                  |                                     |
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| 5867.169<br>US3 | Utility -<br>CON   | 11/326,823 | HIGH LINEARITY<br>DIGITAL<br>VARIABLE GAIN<br>AMPLIFIER                                                | Jan 6, 2006  | Issued  | Nov 30, 2010 | 7,843,038 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.174<br>US1 | Utility -<br>ORG   | 10/991,387 | COMMON-<br>MODE DATA<br>TRANSMISSION<br>FOR POWER<br>OVER ETHERNET<br>SYSTEM                           | Nov 19, 2004 | Issued  | Sep 9, 2014  | 8,831,211 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.175<br>US1 | Utility -<br>ORG   | 13/398,046 | ACTIVE BRIDGE<br>RECTIFICATION                                                                         | Feb 16, 2012 | Issued  | Aug 12, 2014 | 8,804,389 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.177<br>PRV | Prov -<br>ORG      | 61/243,230 | METHOD TO<br>IMPROVE THE<br>ACCURACY OF A<br>VOLT-SECOND<br>CLAMP IN AN<br>ISOLATED DC/DC<br>CONVERTER | Sep 17, 2009 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.177<br>US1 | Utility -<br>NPREG | 12/882,806 | ACCURACY OF A<br>VOLT-SECOND<br>CLAMP IN AN<br>ISOLATED DC/DC<br>CONVERTER                             | Sep 15, 2010 | Issued  | Nov 26, 2013 | 8,593,839 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |



|                 |                    |                |                                                                                   |              |         |              |           |                                  |                                     |
|-----------------|--------------------|----------------|-----------------------------------------------------------------------------------|--------------|---------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.178<br>PRV | Prov -<br>ORG      | 61/351,68<br>5 | DC/DC<br>CONVERTER<br>MAGNETIZING<br>CURRENT LIMIT                                | Jun 4, 2010  | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.178<br>US1 | Utility -<br>NPREG | 13/151,68<br>9 | DC/DC<br>CONVERTER<br>WITH<br>MAGNETIC FLUX<br>DENSITY LIMITS                     | Jun 2, 2011  | Issued  | Apr 8, 2014  | 8,693,215 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.179<br>US1 | Utility -<br>ORG   | 12/276,55<br>2 | METHOD AND<br>SYSTEM FOR<br>VARIABLE-GAIN<br>AMPLIFIER                            | Nov 24, 2008 | Issued  | May 11, 2010 | 7,714,658 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.180<br>US1 | Utility -<br>ORG   | 11/605,29<br>7 | PROGRAMMABLE<br>CONDUCTION<br>MODE CONTROL<br>FOR SWITCHING<br>CIRCUITS           | Nov 29, 2006 | Issued  | Jun 8, 2010  | 7,733,672 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.181<br>PRV | Prov -<br>ORG      | 60/254,82<br>1 | BIDIRECTIONAL<br>BUFFER AND<br>HOT SWAP<br>CIRCUIT FOR<br>TWO-WIRE BUS<br>SYSTEMS | Dec 11, 2000 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                                                                                                                                                                                                                                                |              |         |              |           |                                  |                                     |
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| 5867.181<br>US1 | Utility -<br>NPREG | 10/013,89<br>3 | METHODS AND<br>CIRCUITRY FOR<br>INTERCONNECTI<br>NG DATA AND<br>CLOCK BUSES<br>OF LIVE<br>BACKPLANE<br>CIRCUITRY AND<br>INPUT/OUTPUT<br>CARD<br>CIRCUITRY, AND<br>METHODS AND<br>CIRCUITRY FOR<br>ISOLATING<br>CAPACITANCES<br>OF A LIVE<br>BACKPLANE<br>FROM THE<br>CAPACITANES<br>OF AT LEAST<br>ONE<br>INPUT/OUTPUT<br>CARD | Dec 11, 2001 | Issued  | Apr 18, 2006 | 7,032,051 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.184<br>PRV | Prov -<br>ORG      | 61/847,69<br>7 | INTERFACE<br>CIRCUIT FOR<br>DRIVING FULLY-<br>DIFFERENTIAL<br>CIRCUITS                                                                                                                                                                                                                                                         | Jul 18, 2013 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                            |              |         |              |           |                                  |                                     |
|-----------------|--------------------|----------------|----------------------------------------------------------------------------|--------------|---------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.184<br>US1 | Utility -<br>NPREG | 14/083,19<br>5 | INTERFACE<br>CIRCUIT FOR<br>DRIVING FULLY-<br>DIFFERENTIAL<br>CIRCUITS     | Nov 18, 2013 | Issued  | Nov 4, 2014  | 8,878,587 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.185<br>PRV | Prov -<br>ORG      | 61/754,45<br>2 | ULTRA LOW<br>QUIESCENT<br>CURRENT BURST<br>MODE IN<br>DROPOUT<br>OPERATION | Jan 18, 2013 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.185<br>US1 | Utility -<br>NPREG | 13/922,19<br>1 | VOLTAGE<br>REGULATOR<br>SLEEP CONTROL<br>IN DROPOUT<br>MODE                | Jun 19, 2013 | Issued  | Feb 2, 2016  | 9,250,638 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.187<br>US1 | Utility -<br>ORG   | 09/116,30<br>9 | ACTIVE PULLUP<br>CIRCUITRY FOR<br>OPEN-DRAIN<br>SIGNALS                    | Jul 15, 1998 | Issued  | Mar 12, 2002 | 6,356,140 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.187<br>US2 | Utility -<br>CON   | 10/028,24<br>3 | ACTIVE PULLUP<br>CIRCUITRY FOR<br>OPEN-DRAIN<br>SIGNALS                    | Dec 18, 2001 | Issued  | Nov 18, 2003 | 6,650,174 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.188<br>US1 | Utility -<br>NPREG | 13/111,63<br>6 | DYNAMIC<br>COMPENSATION<br>OF AGING DRIFT<br>IN CURRENT<br>SENSE RESISTOR  | May 19, 2011 | Issued  | Jul 15, 2014 | 8,779,777 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                         |              |         |              |           |                                  |                                     |
|-----------------|--------------------|----------------|---------------------------------------------------------------------------------------------------------|--------------|---------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.189<br>PRV | Prov -<br>ORG      | 61/524,94<br>5 | RADAR SYSTEM<br>AND METHOD<br>FOR PROVIDING<br>INFORMATION<br>ON<br>MOVEMENTS OF<br>OBJECT'S<br>SURFACE | Aug 18, 2011 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.189<br>US1 | Utility -<br>NPREG | 13/315,65<br>4 | RADAR SYSTEM<br>AND METHOD<br>FOR PROVIDING<br>INFORMATION<br>ON<br>MOVEMENTS OF<br>OBJECT'S<br>SURFACE | Dec 9, 2011  | Issued  | Nov 17, 2015 | 9,188,477 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.190<br>PRV | Prov -<br>ORG      | 61/243,22<br>8 | DC/DC<br>CONVERTER<br>HAVING A FAST<br>AND ACCURATE<br>AVERAGE<br>CURRENT LIMIT                         | Sep 17, 2009 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.190<br>US1 | Utility -<br>NPREG | 12/884,01<br>3 | DC/DC<br>CONVERTER<br>HAVING A FAST<br>AND ACCURATE<br>AVERAGE<br>CURRENT LIMIT                         | Sep 16, 2010 | Issued  | Apr 16, 2013 | 8,421,432 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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|-----------------|--------------------|----------------|-----------------------------------------------------------------------|--------------|---------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.191<br>US1 | Utility -<br>ORG   | 12/711,82<br>8 | CHARGE PUMP<br>WITH REDUCED<br>CURRENT<br>VARIATION                   | Feb 24, 2010 | Issued  | Nov 27, 2012 | 8,319,545 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.192<br>PRV | Prov -<br>ORG      | 61/596,89<br>2 | LOW LEAKAGE<br>CIRCUITS,<br>DEVICES, AND<br>TECHNIQUES                | Feb 9, 2012  | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.192<br>US1 | Utility -<br>NPREG | 13/763,19<br>0 | LOW LEAKAGE<br>CIRCUITS,<br>DEVICES, AND<br>TECHNIQUES                | Feb 8, 2013  | Issued  | Oct 13, 2015 | 9,160,312 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.193<br>PRV | Prov -<br>ORG      | 61/276,97<br>0 | RADIO<br>FREQUENCY<br>MODULATOR                                       | Sep 18, 2009 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.193<br>US1 | Utility -<br>NPREG | 12/877,73<br>2 | RADIO<br>FREQUENCY<br>MODULATOR                                       | Sep 8, 2010  | Issued  | Jul 17, 2012 | 8,222,965 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.194<br>PRV | Prov -<br>ORG      | 61/268,85<br>4 | DISCOVERY OF<br>NEIGHBORS<br>DURING<br>WIRELESS<br>NETWORK<br>JOINING | Jun 16, 2009 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.194<br>US1 | Utility -<br>NPREG | 12/770,56<br>5 | DISCOVERY OF<br>NEIGHBORS<br>DURING<br>WIRELESS<br>NETWORK<br>JOINING | Apr 29, 2010 | Issued  | Dec 3, 2013  | 8,599,719 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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|-----------------|--------------------|----------------|-----------------------------------------------------------------------------------------------|--------------|---------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.195<br>PRV | Prov -<br>ORG      | 61/216,60<br>1 | DETERMINING<br>PATH STABILITY<br>USING SOURCE<br>ROUTED<br>PACKETS IN<br>WIRELESS<br>NETWORKS | May 19, 2009 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.195<br>US1 | Utility -<br>NPREG | 12/770,57<br>1 | DETERMINING<br>PATH STABILITY<br>USING SOURCE<br>ROUTED<br>PACKETS IN<br>WIRELESS<br>NETWORKS | Apr 29, 2010 | Issued  | Sep 9, 2014  | 8,830,847 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.196<br>PRV | Prov -<br>ORG      | 61/130,52<br>3 | CONGESTION<br>CONTROL FOR<br>TDMA BASED<br>WIRELESS<br>SENSOR<br>NETWORKS                     | May 30, 2008 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.196<br>US1 | Utility -<br>NPREG | 12/387,45<br>4 | CONGESTION<br>CONTROL FOR<br>WIRELESS<br>SENSOR<br>NETWORKS                                   | Apr 30, 2009 | Issued  | May 29, 2012 | 8,189,479 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.197<br>PRV | Prov -<br>ORG      | 61/002,41<br>5 | SOURCE<br>ROUTING<br>BANDWIDTH<br>ACTIVATION                                                  | Nov 7, 2007  | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.197<br>US1 | Utility -<br>NPREG | 12/288,34<br>2 | SOURCE<br>ROUTING<br>BANDWIDTH<br>ACTIVATION                                                  | Oct 17, 2008 | Issued  | Mar 12, 2013 | 8,396,022 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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|-----------------|--------------------|----------------|--------------------------------------------------------------------------------------|--------------|---------|-------------|-----------|----------------------------------|-------------------------------------|
| 5867.198<br>PRV | Prov -<br>ORG      | 60/930,60<br>0 | TIME OF FLIGHT<br>MEASUREMENT<br>IN WIRELESS<br>MESH<br>NETWORKS                     | May 16, 2007 | Expired |             |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.198<br>US1 | Utility -<br>NPREG | 12/148,41<br>2 | TIME<br>CORRECTION<br>AND DISTANCE<br>MEASUREMENT<br>IN WIRELESS<br>MESH<br>NETWORKS | Apr 18, 2008 | Issued  | Dec 4, 2012 | 8,325,704 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.199<br>PRV | Prov -<br>ORG      | 60/930,22<br>6 | TIMING<br>CALIBRATION<br>FOR A MESH<br>NETWORK                                       | May 14, 2007 | Expired |             |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.199<br>US1 | Utility -<br>NPREG | 12/082,24<br>2 | TIMING<br>CALIBRATION<br>FOR CRYSTAL<br>OSCILLATORS<br>WITHIN A MESH<br>NETWORK      | Apr 9, 2008  | Issued  | Sep 7, 2010 | 7,791,419 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.200<br>PRV | Prov -<br>ORG      | 60/849,66<br>3 | ADAPTIVE<br>TIMING<br>SYNCHRONIZATI<br>ON FOR MESH<br>NETWORKS                       | Oct 5, 2006  | Expired |             |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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|-----------------|--------------------|----------------|---------------------------------------------------------------------------------------------------|--------------|---------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.200<br>US1 | Utility -<br>NPREG | 11/973,29<br>5 | ADAPTIVE<br>TIMING<br>SYNCHRONIZATI<br>ON FOR MESH<br>NETWORKS                                    | Oct 5, 2007  | Issued  | Jun 5, 2012  | 8,194,636 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.201<br>PRV | Prov -<br>ORG      | 60/756,24<br>0 | PROVIDING LOW<br>LATENCY<br>COMMUNICATI<br>ON IN WIRELESS<br>MESH<br>NETWORKS                     | Jan 3, 2006  | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.201<br>US1 | Utility -<br>NPREG | 11/649,34<br>2 | PROVIDING<br>BOUNDED<br>LATENCY<br>COMMUNICATI<br>ON IN WIRELESS<br>MESH<br>NETWORKS              | Jan 3, 2007  | Issued  | Mar 20, 2012 | 8,139,554 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.202<br>US1 | Utility -<br>ORG   | 12/642,63<br>4 | CONTINUOUSLY<br>SWITCHING<br>BUCK-BOOST<br>CONTROL                                                | Dec 18, 2009 | Issued  | Feb 5, 2013  | 8,368,365 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.206<br>US1 | Utility -<br>ORG   | 11/326,73<br>1 | METHODS AND<br>CIRCUITS FOR<br>OUTPUT OVER-<br>VOLTAGE<br>REDUCTION IN<br>SWITCHING<br>REGULATORS | Jan 5, 2006  | Issued  | May 27, 2008 | 7,378,826 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |



|                 |                    |                |                                                                                                               |              |         |              |           |                                  |                                     |
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| 5867.207<br>US1 | Utility -<br>ORG   | 10/003,09<br>6 | CIRCUITRY AND<br>METHODS FOR<br>IMPROVING THE<br>PERFORMANCE<br>OF A LIGHT<br>EMITTING<br>ELEMENT             | Dec 6, 2001  | Issued  | May 23, 2006 | 7,049,759 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.207<br>US2 | Utility -<br>CON   | 11/176,12<br>6 | CIRCUITRY AND<br>METHODS FOR<br>IMPROVING THE<br>PERFORMANCE<br>OF A LIGHT<br>EMITTING<br>ELEMENT             | Jul 6, 2005  | Issued  | Dec 25, 2007 | 7,312,581 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.208<br>US1 | Utility -<br>ORG   | 10/738,82<br>4 | CIRCUITS AND<br>METHODS FOR<br>DETECTING THE<br>PRESENCE OF A<br>POWERED<br>DEVICE IN A<br>POWERED<br>NETWORK | Dec 16, 2003 | Issued  | Apr 8, 2008  | 7,356,588 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.209<br>PRV | Prov -<br>ORG      | 60/698,75<br>8 | DIGITALLY<br>CONTROLLED<br>OSCILLATOR                                                                         | Jul 12, 2005 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.209<br>US1 | Utility -<br>NPREG | 11/484,43<br>3 | RADIO<br>OSCILLATOR<br>TUNING                                                                                 | Jul 11, 2006 | Issued  | May 20, 2008 | 7,375,594 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                                                             |              |           |              |           |  |                                  |                                     |
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| 5867.210<br>PRV | Prov -<br>ORG      | 60/634,19<br>5 | LOW-POWER<br>DIGRAPH<br>NETWORK<br>SYSTEM                                                                                                   | Dec 7, 2004  | Expired   |              |           |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.210<br>US1 | Utility -<br>NPREG | 11/256,65<br>2 | SELF MANAGING<br>A LOW POWER<br>NETWORK                                                                                                     | Oct 20, 2005 | Issued    | Sep 10, 2013 | 8,532,002 |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.211<br>PRV | Prov -<br>ORG      | 60/661,07<br>5 | APPLICATION-<br>DRIVEN AGILE<br>NETWORKS                                                                                                    | Mar 11, 2005 | Expired   |              |           |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.211<br>US1 | Utility -<br>NPREG | 11/371,31<br>7 | APPLICATION-<br>DRIVEN AGILE<br>NETWORKS                                                                                                    | Mar 7, 2006  | Issued    | Dec 8, 2009  | 7,630,326 |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.214<br>PRV | Prov -<br>ORG      | 61/524,47<br>8 | PROVIDING<br>COMMON<br>MODE INPUT<br>CONTROL FOR<br>SWITCHED<br>CAPACITOR<br>AMPLIFIER IN<br>PIPELINE<br>ANALOG-TO-<br>DIGITAL<br>CONVERTER | Aug 17, 2011 | Expired   |              |           |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.214<br>PV2 | Prov -<br>ORG      | 61/684,01<br>6 | COMMON<br>MODE INPUT<br>CONTROL FOR<br>SWITCHED<br>CAPACITOR<br>AMPLIFIER IN<br>PIPELINE<br>ANALOG-TO-<br>DIGITAL<br>CONVERTER              | Aug 16, 2012 | Abandoned |              |           |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.214<br>US1 | Utility -<br>NPREG | 13/587,703 | COMMON<br>MODE INPUT<br>CONTROL FOR<br>SWITCH<br>CAPACITOR<br>AMPLIFIER IN<br>PIPELINE<br>ANALOG-TO-<br>DIGITAL<br>CONVERTER | Aug 16, 2012 | Issued | Dec 30, 2014 | 8,922,275 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.225<br>US1 | Utility -<br>ORG   | 11/052,478 | PROTECTION<br>FOR SWITCHED<br>STEP UP/STEP<br>DOWN<br>REGULATORS                                                             | Feb 8, 2005  | Issued | Apr 29, 2008 | 7,365,525 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.232<br>US1 | Utility -<br>ORG   | 11/166,089 | WIDE DYNAMIC<br>RANGE<br>SWITCHING<br>VARIABLE GAIN<br>AMPLIFIER AND<br>CONTROL                                              | Jun 27, 2005 | Issued | Aug 21, 2007 | 7,259,620 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                                                                        |              |         |              |           |                                  |                                     |
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| 5867.233<br>US1 | Utility -<br>ORG | 11/106,596 | IMPROVED<br>NETWORK WITH<br>MULTIPLE<br>ADJUSTMENT<br>ELEMENTS AND<br>SENSITIVITIES,<br>AND DIGITAL-TO-<br>ANALOG<br>CONVERTER<br>IMPLEMENTING<br>SAME | Apr 15, 2005 | Issued  | Aug 14, 2007 | 7,256,721 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.234<br>US1 | Utility -<br>ORG | 11/108,895 | TRIM CIRCUITS<br>AND<br>METHODOLOGIE<br>S FOR DATA<br>CONVERTERS                                                                                       | Apr 19, 2005 | Issued  | Apr 25, 2006 | 7,034,735 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.235<br>US1 | Utility -<br>ORG | 09/359,854 | METHODS AND<br>APPARATUS FOR<br>CONTROLLING<br>THE INTENSITY<br>OF A<br>FLUORESCENT<br>LAMP                                                            | Jul 23, 1999 | Issued  | Mar 6, 2001  | 6,198,236 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.236<br>PRV | Prov -<br>ORG    | 61/141,766 | VOLTAGE<br>INDEPENDENT<br>POWER SUPPLY<br>LOAD SHARING<br>BY<br>CONTROLLING<br>SERIES VOLTAGE<br>DROP                                                  | Dec 31, 2008 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                                  |              |        |              |           |                                  |                                     |
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| 5867.236<br>US1 | Utility -<br>NPREG | 12/645,34<br>1 | METHOD AND<br>SYSTEM FOR<br>VOLTAGE<br>INDEPENDENT<br>POWER SUPPLY<br>LOAD SHARING                               | Dec 22, 2009 | Issued | Oct 7, 2014  | 8,853,885 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.238<br>US1 | Utility -<br>ORG   | 13/397,37<br>0 | NEGATIVE SLOPE<br>COMPENSATION<br>FOR CURRENT<br>MODE<br>SWITCHING<br>POWER SUPPLY                               | Feb 15, 2012 | Issued | Apr 1, 2014  | 8,686,702 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.239<br>US1 | Utility -<br>ORG   | 12/940,43<br>4 | METHOD AND<br>SYSTEM FOR<br>DETECTING AND<br>ASSERTING BUS<br>SPEED<br>CONDITION IN A<br>USB ISOLATING<br>DEVICE | Nov 5, 2010  | Issued | Dec 30, 2014 | 8,924,621 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.240<br>US1 | Utility -<br>ORG   | 12/421,12<br>6 | BUCK-MODE<br>BOOST<br>CONVERTER<br>WITH<br>REGULATED<br>OUTPUT<br>CURRENT                                        | Apr 9, 2009  | Issued | Nov 15, 2011 | 8,058,812 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.241<br>US1 | Utility -<br>ORG   | 12/474,938 | LOW THERMAL<br>HYSTERESIS<br>BANDGAP<br>VOLTAGE<br>REFERENCE                                            | May 29, 2009 | Issued  | Aug 10, 2010 | 7,772,920 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.246<br>US1 | Utility -<br>ORG   | 12/752,858 | ERROR<br>AMPLIFIER FOR<br>REGULATING<br>SINGLE<br>FEEDBACK<br>INPUT AT<br>MULTIPLE<br>LEVELS            | Apr 1, 2010  | Issued  | Sep 25, 2012 | 8,274,314 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.249<br>PRV | Prov -<br>ORG      | 61/810,661 | DYNAMIC<br>SWITCHING<br>FREQUENCY<br>ADJUSTMENT<br>FOR FAST<br>TRANSIENT<br>RESPONSE                    | Apr 10, 2013 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.249<br>US1 | Utility -<br>NPREG | 13/963,880 | CIRCUIT AND<br>METHOD FOR<br>DYNAMIC<br>SWITCHING<br>FREQUENCY<br>ADJUSTMENT IN<br>A POWER<br>CONVERTER | Aug 9, 2013  | Issued  | Apr 4, 2017  | 9,614,436 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.250<br>PRV | Prov -<br>ORG      | 61/813,583 | BALUN MIXER<br>CIRCUITS                                                                                 | Apr 18, 2013 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.250<br>US1 | Utility -<br>NPREG | 14/061,479 | BALUN MIXER<br>CIRCUITS                                                                                 | Oct 23, 2013 | Issued  | Dec 2, 2014  | 8,901,988 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |            |                                                                                                            |              |         |              |           |                                  |                                     |
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| 5867.251<br>US1 | Utility -<br>ORG   | 11/498,130 | LIGHT LOAD<br>REGULATOR FOR<br>ISOLATED<br>FLYBACK<br>CONVERTER                                            | Aug 3, 2006  | Issued  | Dec 30, 2008 | 7,471,522 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.252<br>PRV | Prov -<br>ORG      | 62/022,102 | LEVEL-SHIFTING<br>AMPLIFIER                                                                                | Jul 8, 2014  | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.252<br>US1 | Utility -<br>NPREG | 14/610,597 | LEVEL-SHIFTING<br>AMPLIFIER                                                                                | Jan 30, 2015 | Issued  | Jun 21, 2016 | 9,374,050 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.253<br>US1 | Utility -<br>ORG   | 14/335,696 | TRIMMING GAIN<br>AND CMMR IN<br>DIFFERENCE<br>AMPLIFIER                                                    | Jul 18, 2014 | Issued  | May 10, 2016 | 9,337,792 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.254<br>PRV | Prov -<br>ORG      | 61/977,351 | CIRCUIT FOR<br>CONVERTING A<br>VALUE<br>ENCODED IN A<br>TIME-BASED<br>SIGNAL INTO AN<br>ANALOG<br>QUANTITY | Apr 9, 2014  | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.254<br>US1 | Utility -<br>NPREG | 14/669,508 | CIRCUIT FOR<br>CONVERTING A<br>VALUE<br>ENCODED IN A<br>TIME-BASED<br>SIGNAL INTO AN<br>ANALOG<br>QUANTITY | Mar 26, 2015 | Issued  | Jun 21, 2016 | 9,374,105 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.255<br>US1 | Utility -<br>ORG   | 14/199,83<br>9 | EXPONENTIAL<br>ROM TABLE<br>TUNING USING<br>TRIM FOR<br>FREQUENCY<br>AGILE ANALOG<br>FILTERS                                                   | Mar 6, 2014  | Issued  | Apr 5, 2016 | 9,306,531 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.259<br>PRV | Prov -<br>ORG      | 61/141,77<br>7 | AUTONOMOUS<br>MULTI-DEVICE<br>EVENT<br>SYNCHRONIZATI<br>ON TECHNIQUE<br>ELIMINATING<br>MASTER AND<br>SLAVE<br>ASSIGNMENTS                      | Dec 31, 2008 | Expired |             |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.259<br>US1 | Utility -<br>NPREG | 12/645,25<br>8 | AUTONOMOUS<br>MULTI-DEVICE<br>EVENT<br>SYNCHRONIZATI<br>ON AND<br>SEQUENCING<br>TECHNIQUE<br>ELIMINATING<br>MASTER AND<br>SLAVE<br>ASSIGNMENTS | Dec 22, 2009 | Issued  | Jan 7, 2014 | 8,627,132 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |



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| 5867.260<br>US1 | Utility -<br>ORG   | 12/073,92<br>4 | SYSTEM AND<br>METHOD FOR<br>CHARGING<br>CAPACITORS<br>USING<br>AUTOMATIC<br>CELL BALANCING | Mar 12, 2008 | Issued  | Jun 12, 2012 | 8,198,869 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.260<br>US2 | Utility -<br>DIV   | 13/409,99<br>2 | SYSTEM AND<br>METHOD FOR<br>CHARGING<br>CAPACITORS<br>USING<br>AUTOMATIC<br>CELL BALANCING | Mar 1, 2012  | Issued  | Nov 19, 2013 | 8,587,263 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.269<br>PRV | Prov -<br>ORG      | 61/238,23<br>9 | ENHANCED PAD<br>DESIGN FOR<br>SOLDER ATTACH<br>DEVICES                                     | Aug 31, 2009 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.269<br>US1 | Utility -<br>NPREG | 12/773,47<br>7 | ENHANCED PAD<br>DESIGN FOR<br>SOLDER ATTACH<br>DEVICES                                     | May 4, 2010  | Issued  | Apr 24, 2012 | 8,163,643 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.270<br>US1 | Utility -<br>ORG   | 11/727,49<br>7 | SYNCHRONOUS<br>RECTIFIER<br>CONTROL FOR<br>SYNCHRONOUS<br>BOOST<br>CONVERTER               | Mar 27, 2007 | Issued  | Nov 22, 2011 | 8,063,615 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.270<br>US2 | Utility -<br>DIV | 13/251,852 | SYNCHRONOUS<br>RECTIFIER<br>CONTROL FOR<br>SYNCHRONOUS<br>BOOST<br>CONVERTER                                                        | Oct 3, 2011  | Issued | Nov 13, 2012 | 8,310,216 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.271<br>US1 | Utility -<br>ORG | 11/881,822 | PROVIDING A<br>LOW LATENCY<br>BACKBONE IN A<br>WIRELESS MESH<br>NETWORK                                                             | Jul 27, 2007 | Issued | Jun 22, 2010 | 7,742,435 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.273<br>US1 | Utility -<br>ORG | 11/418,131 | CIRCUIT AND<br>METHODOLOGY<br>FOR SUPPLYING<br>PULSED<br>CURRENT TO A<br>LOAD, SUCH AS<br>A LIGHT<br>EMITTING<br>DIODE              | May 5, 2006  | Issued | Jun 29, 2010 | 7,746,300 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.274<br>US1 | Utility -<br>ORG | 09/227,002 | LOW NOISE STEP-<br>DOWN<br>SWITCHING<br>REGULATOR<br>CIRCUITS WITH<br>PROGRAMMABLE<br>SLEW RATE<br>LIMITER AND<br>METHODS OF<br>USE | Jan 7, 1999  | Issued | Mar 21, 2000 | 6,040,686 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.276<br>US1 | Utility -<br>ORG | 08/878,631 | SYNCHRONOUS SWITCHING REGULATOR WHICH EMPLOYS SWITCH VOLTAGE-DROP FOR CURRENT SENSING                                   | Jun 13, 1997 | Issued | Dec 8, 1998  | 5,847,554 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.277<br>US1 | Utility -<br>ORG | 08/715,428 | METHODS AND APPARATUS FOR OBTAINING FLOATING OUTPUT DRIVE TO FLUORESCENT LAMPS AND MINIMIZING INSTALLATION REQUIREMENTS | Sep 18, 1996 | Issued | Jun 16, 1998 | 5,767,630 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.278<br>US1 | Utility -<br>ORG | 08/840,017 | APPARATUS AND METHOD USING WAVEFORM SHAPING FOR REDUCING HIGH FREQUENCY NOISE FROM SWITCHING INDUCTIVE LOADS            | Apr 24, 1997 | Issued | Sep 14, 1999 | 5,952,817 | Linear Technology Holding LLC | Linear Technology Corporation |

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| 5867.279<br>US1 | Utility -<br>ORG | 09/099,40<br>9 | VOLTAGE MODE<br>FEEDBACK<br>BURST MODE<br>CIRCUIT                                                                                                               | Jun 18, 1998 | Issued  | Oct 23, 2001 | 6,307,356 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.280<br>US1 | Utility -<br>ORG | 09/198,19<br>3 | FLUORESCENT-<br>LAMP<br>EXCITATION<br>CIRCUIT WITH<br>FREQUENCY<br>AND AMPLITUDE<br>CONTROL AND<br>METHODS FOR<br>USING SAME                                    | Nov 23, 1998 | Issued  | Jul 11, 2000 | 6,087,787 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.281<br>PRV | Prov -<br>ORG    | 60/099,90<br>8 | GENERATION OF<br>TIMING<br>CONTROL AND<br>SLOPE<br>COMPENSATION<br>SIGNALS IN A<br>MULTIPLE<br>PHASE, SINGLE<br>OR MULTIPLE<br>OUTPUT<br>SWITCHING<br>REGULATOR | Sep 11, 1998 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.281<br>US1 | Utility -<br>NPREG | 09/383,459 | CIRCUITS AND METHODS FOR CONTROLLING TIMING AND SLOPE COMPENSATION IN SWITCHING REGULATORS     | Aug 26, 1999 | Issued  | Jan 23, 2001 | 6,177,787 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.282<br>US1 | Utility -<br>ORG   | 09/536,271 | SYSTEMS AND METHODS FOR LINEARLY VARYING A PULSE-WIDTH MODULATION SIGNAL WITH A CONTROL SIGNAL | Mar 27, 2000 | Issued  | Jun 11, 2002 | 6,404,251 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.283<br>US1 | Utility -<br>ORG   | 09/780,649 | MULTIPLE PHASE SWITCHING REGULATORS WITH STAGE SHEDDING                                        | Feb 8, 2001  | Issued  | Jan 6, 2004  | 6,674,274 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.285<br>PRV | Prov -<br>ORG      | 61/345,960 | ANALOG-TO-DIGITAL CONVERTER WITH SERIAL OUTPUT DATA FORMATTED FOR REDUCED LATENCY              | May 18, 2010 | Expired |              |           | Linear Technology Holding LLC | Linear Technology Corporation |

|                 |                    |            |                                                                                                                                            |              |         |              |           |                                  |                                     |
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| 5867.285<br>US1 | Utility -<br>NPREG | 13/107,508 | METHOD AND<br>CIRCUIT FOR<br>ENCODING AND<br>TRANSMITTING<br>NUMERICAL<br>VALUES FROM<br>AN ANALOG-TO-<br>DIGITAL<br>CONVERSION<br>PROCESS | May 13, 2011 | Issued  | Mar 5, 2013  | 8,390,497 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.286<br>PRV | Prov -<br>ORG      | 61/485,283 | CIRCUITRY TO<br>PREVENT<br>OVERVOLTAGE<br>OF CIRCUIT<br>SYSTEMS                                                                            | May 12, 2011 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.286<br>US1 | Utility -<br>NPREG | 13/424,116 | CIRCUITRY TO<br>PREVENT<br>OVERVOLTAGE<br>OF CIRCUIT<br>SYSTEMS                                                                            | Mar 19, 2012 | Issued  | Dec 31, 2013 | 8,619,400 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.287<br>PRV | Prov -<br>ORG      | 61/325,690 | SWITCHING<br>SCHEME FOR<br>STEP UP-STEP<br>DOWN<br>CONVERTERS<br>USING FIXED<br>FREQUENCY<br>CURRENT-MODE<br>CONTROL                       | Apr 19, 2010 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.287<br>US1 | Utility -<br>NPREG | 13/088,867 | SWITCHING<br>SCHEME FOR<br>STEP UP-STEP<br>DOWN<br>CONVERTERS<br>USING FIXED<br>FREQUENCY<br>CURRENT-MODE<br>CONTROL                                              | Apr 18, 2011 | Issued  | Dec 16, 2014 | 8,912,779 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.288<br>PRV | Prov -<br>ORG      | 61/290,116 | LOW-LOSS, HIGH-<br>ACCURACY<br>EFFICIENCY<br>METER FOR STEP-<br>UP AND STEP-<br>DOWN<br>SWITCHING<br>POWER<br>SUPPLIES                                            | Dec 24, 2009 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.288<br>US1 | Utility -<br>NPREG | 12/755,291 | EFFICIENCY<br>MEASURING<br>CIRCUIT FOR DC-<br>DC CONVERTER<br>WHICH<br>CALCULATES<br>INTERNAL<br>RESISTANCE OF<br>SWITCHING<br>INDUCTOR<br>BASED ON DUTY<br>CYCLE | Apr 6, 2010  | Issued  | Oct 2, 2012  | 8,278,895 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.289<br>PRV | Prov -<br>ORG      | 61/262,73<br>7 | SAR ADC WITH<br>REDUCED<br>SIGNAL SWING<br>AT THE INPUT<br>OF THE<br>COMPARATOR<br>CIRCUIT   | Nov 19, 2009 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.289<br>US1 | Utility -<br>NPREG | 12/949,50<br>7 | SEQUENTIALLY<br>CONFIGURED<br>ANALOG TO<br>DIGITAL<br>CONVERTER                              | Nov 18, 2010 | Issued  | Jul 31, 2012 | 8,232,905 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.290<br>PRV | Prov -<br>ORG      | 61/263,62<br>8 | POWERED<br>DEVICE<br>PROVIDING<br>SEAMLESS<br>SWITCHING<br>BETWEEN<br>POWER SUPPLY<br>INPUTS | Nov 23, 2009 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.290<br>US1 | Utility -<br>NPREG | 12/759,27<br>0 | PROVIDING<br>POWER TO<br>POWERED<br>DEVICE HAVING<br>MULTIPLE<br>POWER SUPPLY<br>INPUTS      | Apr 13, 2010 | Issued  | Nov 12, 2013 | 8,581,438 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |



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| 5867.291<br>PRV | Prov -<br>ORG      | 61/264,14<br>9 | ENHANCING AN<br>OPERATIONAL<br>AMPLIFIER'S<br>CAPACITIVE<br>LOAD DRIVING<br>CAPABILITY<br>USING PARALLEL<br>MILLER<br>FEEDBACK | Nov 24, 2009 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.291<br>US1 | Utility -<br>NPREG | 12/768,24<br>5 | ENHANCING AN<br>OPERATIONAL<br>AMPLIFIER'S<br>CAPACITIVE<br>LOAD DRIVING<br>CAPABILITY<br>USING PARALLEL<br>MILLER<br>FEEDBACK | Apr 27, 2010 | Issued  | Nov 15, 2011 | 8,058,931 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.292<br>PRV | Prov -<br>ORG      | 61/304,15<br>6 | METHOD TO<br>ACHIEVE CLOCK<br>EDGE<br>SYNCHRONIZATI<br>ON OF<br>MULTIPLE<br>CLOCK<br>DISTRIBUTION<br>INTEGRATED<br>CIRCUITS    | Feb 12, 2010 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |            |                                                                                                                                                                                    |              |        |              |           |                               |                               |
|-----------------|--------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|-------------------------------|-------------------------------|
| 5867.292<br>US1 | Utility -<br>NPREG | 13/024,916 | METHOD AND SYSTEM FOR CLOCK EDGE SYNCHRONIZATION OF MULTIPLE CLOCK DISTRIBUTION INTEGRATED CIRCUITS BY CONFIGURING MASTER DEVICE TO PRODUCE AT LEAST ONE GATED CLOCK OUTPUT SIGNAL | Feb 10, 2011 | Issued | Aug 26, 2014 | 8,819,472 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.294<br>US1 | Utility -<br>ORG   | 12/003,883 | FLEXIBLE CONTACTLESS WIRE BONDING STRUCTURE AND METHODOLOGY FOR SEMICONDUCTOR DEVICE                                                                                               | Jan 3, 2008  | Issued | Jun 14, 2011 | 7,960,845 | Linear Technology Holding LLC | Linear Technology Corporation |

|                 |                    |            |                                                                                                           |              |         |              |           |                                  |                                     |
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| 5867.294<br>US2 | Utility -<br>DIV   | 12/941,383 | FLEXIBLE<br>CONTACTLESS<br>WIRE BONDING<br>STRUCTURE AND<br>METHODOLOGY<br>FOR<br>SEMICONDUCTOR<br>DEVICE | Nov 8, 2010  | Issued  | Sep 18, 2012 | 8,269,355 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.295<br>PRV | Prov -<br>ORG      | 60/935,287 | OVER VOLTAGE<br>PROTECTION<br>CIRCUIT                                                                     | Aug 3, 2007  | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.295<br>US1 | Utility -<br>NPREG | 12/181,862 | OVER-VOLTAGE<br>PROTECTION<br>CIRCUIT                                                                     | Jul 29, 2008 | Issued  | Mar 20, 2012 | 8,139,329 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.297<br>US1 | Utility -<br>ORG   | 13/645,322 | CONFIGURABLE<br>SERIAL<br>INTERFACE                                                                       | Oct 4, 2012  | Issued  | Dec 9, 2014  | 8,909,841 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                                                                   |             |        |              |           |                               |                               |
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| 5867.298<br>US1 | Utility -<br>ORG | 13/666,916 | METHODS AND CIRCUITS FOR PROVIDING STABLE CURRENT AND VOLTAGE REFERENCES BASED ON CURRENTS FLOWING THROUGH ULTRA-THIN DIELECTRIC LAYER COMPONENTS | Nov 1, 2012 | Issued | Mar 17, 2015 | 8,981,833 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.300<br>US1 | Utility -<br>ORG | 11/052,477 | VARIABLE FREQUENCY CURRENT-MODE CONTROL FOR SWITCHED STEP UP-STEP DOWN REGULATORS                                                                 | Feb 8, 2005 | Issued | Dec 16, 2008 | 7,466,112 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.301<br>US1 | Utility -<br>ORG | 11/052,480 | CURRENT-MODE CONTROL FOR SWITCHED STEP UP-STEP DOWN REGULATORS                                                                                    | Feb 8, 2005 | Issued | Jul 1, 2008  | 7,394,231 | Linear Technology Holding LLC | Linear Technology Corporation |

|                 |                    |                |                                                                                               |              |         |              |           |                                  |                                     |
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| 5867.302<br>US1 | Utility -<br>ORG   | 10/939,46<br>9 | ADAPTIVE<br>CONTROL FOR<br>INDUCTOR<br>BASED BUCK-<br>BOOST VOLTAGE<br>REGULATORS             | Sep 14, 2004 | Issued  | Sep 4, 2007  | 7,265,524 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.303<br>US1 | Utility -<br>ORG   | 11/091,46<br>7 | OFFSET<br>CORRECTION<br>CIRCUIT FOR<br>VOLTAGE-<br>CONTROLLED<br>CURRENT<br>SOURCE            | Mar 29, 2005 | Issued  | Jul 29, 2014 | 8,791,644 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.304<br>US1 | Utility -<br>ORG   | 12/430,48<br>2 | COMPLEX-<br>ADMITTANCE<br>DIGITAL-TO-<br>ANALOG<br>CONVERTER                                  | Apr 27, 2009 | Issued  | Mar 29, 2011 | 7,916,057 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.305<br>PRV | Prov -<br>ORG      | 60/935,80<br>3 | AMPLITUDE<br>LOCK LOOP FOR<br>PRODUCING<br>CONSTANT<br>AMPLITUDE<br>OSCILLATOR<br>RAMP SIGNAL | Aug 31, 2007 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.305<br>US1 | Utility -<br>NPREG | 12/202,73<br>6 | AMPLITUDE<br>LOCK LOOP FOR<br>PRODUCING<br>CONSTANT<br>AMPLITUDE<br>OSCILLATOR<br>RAMP SIGNAL | Sep 2, 2008  | Issued  | Feb 21, 2012 | 8,120,330 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                                       |              |         |             |           |                                  |                                     |
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| 5867.306<br>PRV | Prov -<br>ORG      | 61/169,42<br>1 | VOLTAGE AND<br>CURRENT<br>REGULATORS<br>WITH SWITCHED<br>OUTPUT<br>CAPACITORS<br>FOR MULTIPLE<br>REGULATION<br>STATES | Apr 15, 2009 | Expired |             |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.306<br>US1 | Utility -<br>NPREG | 12/508,67<br>0 | VOLTAGE AND<br>CURRENT<br>REGULATORS<br>WITH SWITCHED<br>OUTPUT<br>CAPACITORS<br>FOR MULTIPLE<br>REGULATION<br>STATES | Jul 24, 2009 | Issued  | Dec 2, 2014 | 8,901,904 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.307<br>PRV | Prov -<br>ORG      | 61/243,23<br>6 | DC/DC<br>CONVERTER<br>OVERCURRENT<br>PROTECTION                                                                       | Sep 17, 2009 | Expired |             |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.307<br>US1 | Utility -<br>NPREG | 12/883,87<br>6 | DC/DC<br>CONVERTER<br>OVERCURRENT<br>PROTECTION                                                                       | Sep 16, 2010 | Issued  | Jan 1, 2013 | 8,345,391 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                                                  |              |         |              |           |                                  |                                     |
|-----------------|--------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|--------------|---------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.308<br>PRV | Prov -<br>ORG      | 61/243,23<br>3 | METHOD FOR<br>EXTENDING<br>ACHIEVABLE<br>DUTY CYCLE<br>RANGE IN A<br>DC/DC<br>FORWARD<br>CONVERTER<br>WITH ACTIVE<br>CLAMP RESET | Sep 17, 2009 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.308<br>US1 | Utility -<br>NPREG | 12/880,61<br>8 | EXTENDING<br>ACHIEVABLE<br>DUTY CYCLE<br>RANGE IN DC/DC<br>FORWARD<br>CONVERTER<br>WITH ACTIVE<br>CLAMP RESET                    | Sep 13, 2010 | Issued  | Feb 26, 2013 | 8,385,087 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.309<br>PRV | Prov -<br>ORG      | 61/261,48<br>1 | METHOD TO<br>IMPROVE<br>LIMITING<br>AMPLIFIER<br>PHASE NOISE<br>FOR LOW SLEW-<br>RATE INPUT<br>SIGNALS                           | Nov 16, 2009 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                                         |              |         |              |           |                                  |                                     |
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| 5867.309<br>US1 | Utility -<br>NPREG | 12/913,29<br>3 | METHOD AND<br>SYSTEM FOR<br>IMPROVING<br>LIMITING<br>AMPLIFIER<br>PHASE NOISE<br>FOR LOW SLEW-<br>RATE INPUT<br>SIGNALS | Oct 27, 2010 | Issued  | Nov 27, 2012 | 8,319,551 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.311<br>PRV | Prov -<br>ORG      | 60/908,92<br>2 | METHOD FOR<br>CLAMPING A<br>SEMICONDUCTO<br>R REGION AT OR<br>NEAR GROUND                                               | Mar 29, 2007 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.311<br>US2 | Utility -<br>CON   | 13/178,30<br>2 | METHOD FOR<br>CLAMPING A<br>SEMICONDUCTO<br>R REGION AT OR<br>NEAR GROUND                                               | Jul 7, 2011  | Issued  | Apr 17, 2012 | 8,159,278 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.312<br>PRV | Prov -<br>ORG      | 61/124,63<br>6 | SYSTEMS AND<br>METHODS FOR<br>OSCILLATION<br>SUPPRESSION IN<br>SWITCHING<br>CIRCUITS                                    | Apr 18, 2008 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.312<br>US1 | Utility -<br>NPREG | 12/425,05<br>2 | SYSTEMS AND<br>METHODS FOR<br>OSCILLATION<br>SUPPRESSION IN<br>SWITCHING<br>CIRCUITS                                    | Apr 16, 2009 | Issued  | Apr 5, 2011  | 7,920,013 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |



|                 |                    |                |                                                                                                  |              |         |              |           |                                  |                                     |
|-----------------|--------------------|----------------|--------------------------------------------------------------------------------------------------|--------------|---------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.313<br>PRV | Prov -<br>ORG      | 61/124,65<br>3 | SYSTEMS AND<br>METHODS FOR<br>FAST SWITCH<br>TURN ON<br>APPROXIMATING<br>IDEAL DIODE<br>FUNCTION | Apr 18, 2008 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.313<br>US1 | Utility -<br>NPREG | 12/425,01<br>5 | SYSTEMS AND<br>METHODS FOR<br>FAST SWITCH<br>TURN ON<br>APPROXIMATING<br>IDEAL DIODE<br>FUNCTION | Apr 16, 2009 | Issued  | Sep 20, 2011 | 8,022,679 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.314<br>PRV | Prov -<br>ORG      | 61/556,44<br>0 | SYSTEMS AND<br>METHODS FOR<br>RANDOMIZING<br>COMPONENT<br>MISMATCH IN<br>AN ADC                  | Nov 7, 2011  | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.314<br>US1 | Utility -<br>NPREG | 13/671,15<br>1 | SYSTEMS AND<br>METHODS FOR<br>RANDOMIZING<br>COMPONENT<br>MISMATCH IN<br>AN ADC                  | Nov 7, 2012  | Issued  | Feb 11, 2014 | 8,648,741 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.314<br>USR | Utility -<br>REIS  | 14/473,74<br>5 | SYSTEMS AND<br>METHODS FOR<br>RANDOMIZING<br>COMPONENT<br>MISMATCH IN<br>AN ADC                  | Aug 29, 2014 | Issued  | Nov 10, 2015 | RE45,798  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                                                         |              |         |              |           |                                  |                                     |
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| 5867.315<br>PRV | Prov -<br>ORG      | 61/013,69<br>3 | DC/DC<br>CONVERTER<br>STARTUP WITH<br>FREQUENCY<br>RAMPING                                                                              | Dec 14, 2007 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.315<br>US1 | Utility -<br>NPREG | 12/333,93<br>3 | DC/DC<br>CONVERTER<br>STARTUP WITH<br>FREQUENCY<br>RAMPING                                                                              | Dec 12, 2008 | Issued  | Nov 30, 2010 | 7,843,178 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.316<br>PRV | Prov -<br>ORG      | 60/099,90<br>7 | DUAL FUNCTION<br>SWITCHING<br>REGULATOR<br>CONTROL PIN<br>PROVIDES SOFT<br>START AND<br>SHORT CIRCUIT<br>TIMER<br>FUNCTIONS             | Sep 11, 1998 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.316<br>US1 | Utility -<br>NPREG | 09/383,45<br>8 | SINGLE<br>PACKAGE PIN<br>PROVIDING<br>SOFT-START<br>AND SHORT-<br>CIRCUIT TIMER<br>FUNCTIONS IN A<br>VOLTAGE<br>REGULATOR<br>CONTROLLER | Aug 26, 1999 | Issued  | Aug 8, 2000  | 6,100,678 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                        |              |         |              |           |                                  |                                     |
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| 5867.317<br>PRV | Prov -<br>ORG      | 60/709,56<br>6 | CIRCUITRY AND<br>METHOD FOR<br>CANCELING<br>VOLTAGE<br>DEPENDENT<br>CAPACITANCE        | Aug 18, 2005 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.317<br>US1 | Utility -<br>NPREG | 11/506,33<br>8 | CIRCUITS AND<br>METHODS FOR<br>CANCELING<br>SIGNAL<br>DEPENDENT<br>CAPACITANCE         | Aug 18, 2006 | Issued  | Mar 23, 2010 | 7,683,695 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.318<br>PRV | Prov -<br>ORG      | 60/874,74<br>2 | AUTO-BIAS<br>SYSTEM AND<br>METHODOLOGY<br>FOR<br>REGULATORS                            | Dec 14, 2006 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.318<br>US1 | Utility -<br>NPREG | 12/000,59<br>5 | REGULATED<br>POWER SUPPLY<br>SYSTEM AND AN<br>OPERATING<br>METHOD<br>THEREFORE         | Dec 14, 2007 | Issued  | Nov 16, 2010 | 7,834,600 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.319<br>PRV | Prov -<br>ORG      | 60/749,04<br>8 | SYSTEM AND<br>METHOD FOR<br>SUPPORTING<br>ADVANCED<br>POWER OVER<br>ETHERNET<br>SYSTEM | Dec 12, 2005 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |            |                                                                                                                    |              |         |              |           |                                  |                                     |
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| 5867.319<br>US1 | Utility -<br>NPREG | 11/594,091 | INTEGRATED<br>POWERED<br>DEVICE<br>CONNECTOR IN<br>SYSTEM FOR<br>SUPPLYING<br>POWER OVER<br>COMMUNICATI<br>ON LINK | Nov 8, 2006  | Issued  | Nov 9, 2010  | 7,831,844 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.321<br>PRV | Prov -<br>ORG      | 60/777,121 | APPARATUS<br>AND METHOD<br>FOR PRODUCING<br>SIGNAL<br>CONVEYING<br>CIRCUIT STATUS<br>INFORMATION                   | Feb 28, 2006 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.321<br>US1 | Utility -<br>NPREG | 11/582,443 | APPARATUS<br>AND METHOD<br>FOR PRODUCING<br>SIGNAL<br>CONVEYING<br>CIRCUIT STATUS<br>INFORMATION                   | Oct 18, 2006 | Issued  | Aug 24, 2010 | 7,782,017 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.322<br>PRV | Prov -<br>ORG      | 60/685,887 | ASYMMETRIC<br>MINOR<br>HYSTERESIS<br>LOOP MODEL<br>AND CIRCUIT<br>STIMULATOR<br>INCLUDING THE<br>SAME              | Jun 1, 2005  | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                            |              |         |              |           |                                  |                                     |
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| 5867.322<br>US1 | Utility -<br>NPREG | 11/216,00<br>8 | ASYMMETRIC<br>MINOR<br>HYSTERESIS<br>LOOP MODEL<br>AND CIRCUIT<br>STIMULATOR<br>INCLUDING THE<br>SAME      | Sep 1, 2005  | Issued  | Mar 10, 2009 | 7,502,723 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.323<br>PRV | Prov -<br>ORG      | 60/645,60<br>7 | GLOBAL<br>MAXIMUM<br>POWER POINT<br>TRACKING DC-<br>DC CONVERTER                                           | Jan 24, 2005 | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.323<br>US1 | Utility -<br>NPREG | 11/253,69<br>7 | SYSTEM AND<br>METHOD FOR<br>TRACKING A<br>VARIABLE<br>CHARACTERISTIC<br>THROUGH A<br>RANGE OF<br>OPERATION | Oct 20, 2005 | Issued  | May 11, 2010 | 7,714,550 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.325<br>US1 | Utility -<br>ORG   | 12/856,15<br>9 | METHOD AND<br>SYSTEM FOR<br>EXTENDING<br>PWM DIMMING<br>RANGE IN LED<br>DRIVERS                            | Aug 13, 2010 | Issued  | Jun 12, 2012 | 8,198,832 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                       |              |        |              |           |                                  |                                     |
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| 5867.326<br>US1 | Utility -<br>ORG   | 11/698,87<br>4 | CURRENT<br>SOURCE WITH<br>INDIRECT LOAD<br>CURRENT<br>SIGNAL<br>EXTRACTION            | Jan 29, 2007 | Issued | Jan 5, 2010  | 7,642,762 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.327<br>US1 | Utility -<br>NPNEW | 11/252,62<br>4 | DUAL-MODE<br>DETECTION OF<br>POWERED<br>DEVICE IN<br>POWER OVER<br>ETHERNET<br>SYSTEM | Oct 19, 2005 | Issued | Nov 3, 2009  | 7,613,936 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.328<br>US1 | Utility -<br>ORG   | 11/703,71<br>8 | ADAPTIVE<br>OUTPUT<br>CURRENT<br>CONTROL FOR<br>SWITCHING<br>CIRCUITS                 | Feb 8, 2007  | Issued | Dec 29, 2009 | 7,639,517 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.329<br>US1 | Utility -<br>ORG   | 12/078,38<br>4 | METHOD AND<br>SYSTEM FOR BIT<br>POLARIZATION<br>CODING                                | Mar 31, 2008 | Issued | Feb 2, 2010  | 7,656,337 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                                                |              |           |              |           |                                  |                                     |
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| 5867.330<br>US1 | Utility -<br>ORG | 11/483,390 | RANGE<br>COMPRESSION<br>IN<br>OVERSAMPLING<br>ANALOG-TO-<br>DIGITAL<br>CONVERTERS<br>USING<br>DIFFERENTIAL<br>INPUT SIGNALS    | Jul 7, 2006  | Issued    | Jul 8, 2008  | 7,397,403 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.333<br>US1 | Utility -<br>ORG | 11/493,528 | LOW POWER<br>WIDE DYNAMIC<br>RANGE RMS-TO-<br>DC CONVERTER                                                                     | Jul 27, 2006 | Issued    | Mar 11, 2008 | 7,342,431 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.334<br>US1 | Utility -<br>ORG | 11/183,969 | DUAL-INPUT DC-<br>DC CONVERTER<br>WITH<br>INTEGRATED<br>IDEAL DIODE<br>FUNCTION                                                | Jul 19, 2005 | Issued    | May 4, 2010  | 7,709,976 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.335<br>US1 | Utility -<br>CIP | 13/857,935 | COMMON<br>MODE INPUT<br>CONTROL FOR<br>SWITCHED<br>CAPACITOR<br>AMPLIFIER IN<br>PIPELINE<br>ANALOG-TO-<br>DIGITAL<br>CONVERTER | Apr 5, 2013  | Abandoned |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |                |                                                                                                           |              |        |              |           |                                  |                                     |
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| 5867.336<br>US1 | Utility -<br>ORG | 12/645,24<br>1 | METHOD AND<br>SYSTEM FOR<br>SOLAR PANEL<br>PEAK-POWER<br>TRANSFER<br>USING INPUT<br>VOLTAGE<br>REGULATION | Dec 22, 2009 | Issued | Jan 14, 2014 | 8,629,658 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.336<br>US2 | Utility -<br>DIV | 13/594,68<br>4 | METHOD AND<br>SYSTEM FOR<br>SOLAR PANEL<br>PEAK-POWER<br>TRANSFER<br>USING INPUT<br>VOLTAGE<br>REGULATION | Aug 24, 2012 | Issued | Mar 4, 2014  | 8,664,920 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.337<br>US1 | Utility -<br>ORG | 12/631,56<br>4 | METHOD AND<br>SYSTEM FOR<br>MINIMUM<br>OUTPUT-<br>VOLTAGE<br>BATTERY<br>CHARGER                           | Dec 4, 2009  | Issued | Mar 26, 2013 | 8,405,362 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.338<br>US1 | Utility -<br>ORG | 13/483,69<br>3 | EXPANDING<br>DC/DC<br>CONVERTER<br>INTO<br>MULTIPHASE<br>DC/DC<br>CONVERTER                               | May 30, 2012 | Issued | Jul 7, 2015  | 9,077,244 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.339<br>US1 | Utility -<br>ORG | 10/914,05<br>6 | DIGRAPH BASED<br>MESH<br>COMMUNICATI<br>ON NETWORK                                                        | Aug 5, 2004  | Issued | Jun 5, 2012  | 8,194,655 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |



|                 |                  |                           |                                                                                                       |              |               |              |           |                                  |                                     |
|-----------------|------------------|---------------------------|-------------------------------------------------------------------------------------------------------|--------------|---------------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.339<br>WO1 | Utility -<br>ORG | PCT/US20<br>05/01009<br>5 | DIGRAPH BASED<br>MESH<br>COMMUNICATI<br>ON NETWORK                                                    | Mar 25, 2005 | Complete<br>d |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.340<br>US1 | Utility -<br>CIP | 10/960,70<br>9            | LOW-POWER<br>AUTONOMOUS<br>NODE FOR<br>MESH<br>COMMUNICATI<br>ON NETWORK                              | Oct 6, 2004  | Issued        | May 5, 2009  | 7,529,217 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.340<br>US2 | Utility -<br>CON | 11/125,52<br>9            | LOW-POWERED<br>AUTONOMOUS<br>RADIO NODE<br>WITH<br>TEMPERATURE<br>SENSOR AND<br>CRYSTAL<br>OSCILLATOR | May 10, 2005 | Issued        | Feb 1, 2011  | 7,881,239 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.340<br>WO1 | Utility -<br>ORG | PCT/US20<br>05/01037<br>5 | LOW-POWER<br>AUTONOMOUS<br>NODE FOR<br>MESH<br>COMMUNICATI<br>ON NETWORK                              | Mar 25, 2005 | Complete<br>d |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.357<br>US1 | Utility -<br>ORG | 09/298,34<br>5            | OFFSET<br>VOLTAGE<br>CANCELLATION<br>SYSTEM FOR<br>RADIO<br>FREQUENCY<br>POWER<br>CONTROLLERS         | Apr 23, 1999 | Issued        | Dec 26, 2000 | 6,167,242 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                                       |              |        |              |           |                                  |                                     |
|-----------------|------------------|------------|-----------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.363<br>US1 | Utility -<br>ORG | 13/222,742 | DC/DC POWER<br>CONVERTER<br>WITH FEEDBACK<br>CONTROL<br>OPERABLE IN<br>LINEAR AND<br>NON-LINEAR<br>MODES              | Aug 31, 2011 | Issued | Oct 20, 2015 | 9,166,473 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.364<br>US1 | Utility -<br>ORG | 13/166,360 | SIMULTANEOUS<br>LY-SAMPLING<br>SINGLE-ENDED<br>AND<br>DIFFERENTIAL<br>TWO-INPUT<br>ANALOG-TO-<br>DIGITAL<br>CONVERTER | Jun 22, 2011 | Issued | Nov 5, 2013  | 8,576,104 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.365<br>US1 | Utility -<br>ORG | 13/155,922 | SYSTEM AND<br>METHODS TO<br>IMPROVE THE<br>PERFORMANCE<br>OF<br>SEMICONDUCTO<br>R BASED<br>SAMPLING<br>SYSTEM         | Jun 8, 2011  | Issued | Jul 9, 2013  | 8,482,442 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                                    |              |        |              |           |                                  |                                     |
|-----------------|------------------|------------|--------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.366<br>US1 | Utility -<br>ORG | 13/037,090 | VOLTAGE-MODE<br>BAND-GAP<br>REFERENCE<br>CIRCUIT WITH<br>TEMPERATURE<br>DRIFT AND<br>OUTPUT<br>VOLTAGE TRIMS       | Feb 28, 2011 | Issued | Jul 29, 2014 | 8,791,683 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.367<br>US1 | Utility -<br>ORG | 12/960,299 | HIGH DYNAMIC<br>RANGE<br>COULOMB<br>COUNTER<br>WHICH<br>SIMULTANEOUS<br>LY MONITORS<br>MULTIPLE SENSE<br>RESISTORS | Dec 3, 2010  | Issued | Jul 31, 2012 | 8,233,582 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.368<br>US1 | Utility -<br>ORG | 12/849,331 | LASER PROCESS<br>FOR SIDE<br>PLATING OF<br>TERMINALS                                                               | Aug 3, 2010  | Issued | Sep 13, 2011 | 8,017,447 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.369<br>US1 | Utility -<br>ORG | 12/827,455 | CURRENT<br>SENSOR USING<br>LEADFRAME AS<br>SENSING<br>ELEMENT                                                      | Jun 30, 2010 | Issued | May 21, 2013 | 8,446,159 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.370<br>US1 | Utility -<br>ORG | 12/495,170 | METHOD AND<br>SYSTEM FOR<br>DIMMING AN<br>OFFLINE LED<br>DRIVER                                                    | Jun 30, 2009 | Issued | Sep 11, 2012 | 8,264,165 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                               |              |        |              |           |                               |                               |
|-----------------|------------------|------------|-----------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|-------------------------------|-------------------------------|
| 5867.371<br>US1 | Utility -<br>ORG | 12/624,854 | METHOD AND SYSTEM FOR IMPROVED PHASE NOISE IN A BICMOS CLOCK DRIVER                           | Nov 24, 2009 | Issued | Jun 28, 2011 | 7,969,189 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.372<br>US1 | Utility -<br>ORG | 13/204,327 | I2C ISOLATED, BIDIRECTIONAL COMMUNICATION SYSTEM WITH ISOLATED DOMAIN CURRENT SOURCE PULL-UPS | Aug 5, 2011  | Issued | Feb 9, 2016  | 9,256,570 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.373<br>US1 | Utility -<br>ORG | 10/798,547 | FLOATING GATE NONVOLATILE MEMORY CIRCUITS AND METHODS                                         | Mar 10, 2004 | Issued | Nov 1, 2005  | 6,961,279 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.374<br>US1 | Utility -<br>ORG | 11/242,095 | SWITCHING REGULATOR DUTY CYCLE CONTROL IN A FIXED FREQUENCY OPERATION                         | Oct 3, 2005  | Issued | Jun 17, 2008 | 7,388,444 | Linear Technology Holding LLC | Linear Technology Corporation |

|                 |                  |                           |                                                                                         |              |               |              |           |                                  |                                     |
|-----------------|------------------|---------------------------|-----------------------------------------------------------------------------------------|--------------|---------------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.374<br>WO1 | Utility -<br>ORG | PCT/US20<br>06/03079<br>8 | SWITCHING<br>REGULATOR<br>DUTY CYCLE<br>CONTROL IN A<br>FIXED<br>FREQUENCY<br>OPERATION | Aug 7, 2006  | Complete<br>d |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.375<br>US1 | Utility -<br>ORG | 11/522,40<br>8            | CIRCUIT AND<br>METHODOLOGY<br>FOR HIGH-<br>SPEED, LOW-<br>POWER<br>SHIFTING             | Sep 18, 2006 | Issued        | Apr 8, 2014  | 8,692,576 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.376<br>US1 | Utility -<br>ORG | 11/253,56<br>5            | SQUARING CELL<br>IMPLEMENTING<br>TAIL CURRENT<br>MULTIPLICATION                         | Oct 20, 2005 | Issued        | Nov 27, 2007 | 7,301,387 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.378<br>US1 | Utility -<br>ORG | 11/107,73<br>9            | ADAPTIVE<br>POWER<br>CONTROL FOR<br>HYSTERETIC<br>REGULATORS                            | Apr 18, 2005 | Issued        | Oct 7, 2008  | 7,432,695 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.379<br>US1 | Utility -<br>ORG | 09/564,59<br>7            | HIGH VOLTAGE<br>MOS<br>TRANSISTOR<br>WITH UP-RETRO<br>WELL                              | May 3, 2000  | Issued        | Mar 4, 2003  | 6,528,850 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.379<br>US2 | Utility -<br>DIV | 10/345,46<br>7            | HIGH VOLTAGE<br>MOS<br>TRANSISTOR<br>WITH UP-RETRO<br>WELL                              | Jan 14, 2003 | Issued        | Jul 27, 2004 | 6,768,173 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                                                                                          |              |        |              |           |                                  |                                     |
|-----------------|------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.379<br>US3 | Utility -<br>CON | 10/858,619 | HIGH VOLTAGE<br>MOS<br>TRANSISTOR<br>WITH UP-RETRO<br>WELL BY<br>PROVIDING<br>DOPANT IN AN<br>EPITAXIAL LAYER                                                            | Jun 1, 2004  | Issued | Jan 24, 2006 | 6,989,309 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.380<br>US1 | Utility -<br>ORG | 11/520,018 | CONSTANT<br>POWER<br>FOLDBACK<br>MECHANISM<br>PROGRAMMABLE<br>TO<br>APPROXIMATE<br>SAFE<br>OPERATING<br>AREA OF PASS<br>DEVICE FOR<br>PROVIDING<br>CONNECTION TO<br>LOAD | Sep 13, 2006 | Issued | May 26, 2009 | 7,538,528 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.381<br>US1 | Utility -<br>ORG | 12/437,273 | METHOD AND<br>SYSTEM FOR<br>HIGH<br>EFFICIENCY,<br>FAST TRANSIENT<br>MULTI-CHANNEL<br>LED DRIVER                                                                         | May 7, 2009  | Issued | Nov 15, 2011 | 8,058,810 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                                                                           |              |        |              |           |                                  |                                     |
|-----------------|--------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.382<br>US1 | Utility -<br>NPREG | 11/334,45<br>6 | SYSTEM FOR<br>PROVIDING<br>POWER OVER<br>COMMUNICATI<br>ON CABLE<br>HAVING<br>MECHANISM<br>FOR<br>DETERMINING<br>RESISTANCE OF<br>COMMUNICATI<br>ON CABLE | Jan 19, 2006 | Issued | Mar 31, 2009 | 7,511,515 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.383<br>US1 | Utility -<br>ORG   | 12/561,91<br>2 | FEEDBACK<br>CONTROL OF A<br>DC/DC POWER<br>CONVERTER                                                                                                      | Sep 17, 2009 | Issued | Nov 19, 2013 | 8,587,274 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.384<br>US1 | Utility -<br>ORG   | 12/275,12<br>9 | ACCELERATED<br>RESPONSE TO<br>LOAD<br>TRANSIENTS IN<br>PFM DC-TO-DC<br>CONVERTERS                                                                         | Nov 20, 2008 | Issued | Oct 4, 2011  | 8,030,907 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.385<br>US1 | Utility -<br>ORG   | 12/332,27<br>8 | LINEARITY IN<br>LED DIMMER<br>CONTROL                                                                                                                     | Dec 10, 2008 | Issued | Jan 3, 2012  | 8,089,216 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.386<br>US1 | Utility -<br>CIP   | 11/152,02<br>5 | LOW-POWER<br>AUTONOMOUS<br>NODE FOR<br>MESH<br>COMMUNICATI<br>ON NETWORK                                                                                  | Jun 13, 2005 | Issued | Nov 15, 2011 | 8,059,629 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |                |                                                                                       |              |        |              |           |                                  |                                     |
|-----------------|------------------|----------------|---------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.387<br>US1 | Utility -<br>CIP | 11/152,04<br>3 | DIGRAPH<br>NETWORK<br>SUPERFRAMES                                                     | Jun 13, 2005 | Issued | Sep 2, 2008  | 7,420,980 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.387<br>US2 | Utility -<br>CON | 12/220,49<br>3 | DIGRAPH<br>NETWORK<br>SUPERFRAMES                                                     | Jul 25, 2008 | Issued | Jan 18, 2011 | 7,873,043 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.388<br>US1 | Utility -<br>CIP | 11/152,02<br>6 | DIGRAPH<br>NETWORK<br>SUBNETWORKS                                                     | Jun 13, 2005 | Issued | Jun 14, 2011 | 7,961,664 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.392<br>US1 | Utility -<br>ORG | 08/723,57<br>5 | LOW DROP-OUT<br>SWITCHING<br>REGULATOR<br>ARCHITECTURE                                | Sep 30, 1996 | Issued | Jan 6, 1998  | 5,705,919 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.393<br>US1 | Utility -<br>ORG | 11/499,72<br>6 | REGULATOR FOR<br>ISOLATED<br>FLYBACK POWER<br>SUPPLY USING<br>PRIMARY SIDE<br>SENSING | Aug 7, 2006  | Issued | Dec 9, 2008  | 7,463,497 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.394<br>US1 | Utility -<br>ORG | 12/349,64<br>1 | SWITCHING<br>MODE<br>CONVERTERS                                                       | Jan 7, 2009  | Issued | Jun 19, 2012 | 8,203,320 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.395<br>US1 | Utility -<br>ORG | 11/102,86<br>8 | CONFIGURABLE<br>DATA PORT FOR<br>I2C OR SINGLE-<br>WIRE<br>BROADCAST<br>INTERFACE     | Apr 11, 2005 | Issued | Jul 24, 2012 | 8,230,151 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |



|                 |                  |            |                                                                                                                                     |              |        |              |           |                                  |                                     |
|-----------------|------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.396<br>US1 | Utility -<br>ORG | 11/201,430 | SWITCHING<br>REGULATOR<br>WITH SLOPE<br>COMPENSATION<br>INDEPENDENT<br>OF CHANGES IN<br>SWITCHING<br>FREQUENCY                      | Aug 11, 2005 | Issued | Mar 11, 2008 | 7,342,392 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.397<br>US1 | Utility -<br>ORG | 09/827,872 | CIRCUITS AND<br>METHODS FOR<br>SYNCHRONIZING<br>NON-CONSTANT<br>FREQUENCY<br>SWITCHING<br>REGULATORS<br>WITH A PHASE<br>LOCKED LOOP | Apr 6, 2001  | Issued | Nov 5, 2002  | 6,476,589 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.397<br>US2 | Utility -<br>CON | 10/197,357 | CIRCUITS AND<br>METHODS FOR<br>SYNCHRONIZING<br>NON-CONSTANT<br>FREQUENCY<br>SWITCHING<br>REGULATORS<br>WITH A PHASE<br>LOCKED LOOP | Jul 15, 2002 | Issued | Aug 10, 2004 | 6,774,611 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                             |              |        |              |           |                               |                               |
|-----------------|------------------|------------|-------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|-------------------------------|-------------------------------|
| 5867.397<br>US3 | Utility -<br>CON | 10/883,892 | CIRCUITS AND METHODS FOR SYNCHRONIZING NON-CONSTANT FREQUENCY SWITCHING REGULATORS WITH A PHASE LOCKED LOOP | Jul 2, 2004  | Issued | Mar 28, 2006 | 7,019,497 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.399<br>US1 | Utility -<br>ORG | 13/155,971 | SYSTEM AND METHODS TO IMPROVE THE PERFORMANCE OF SEMICONDUCTOR BASED SAMPLING SYSTEM                        | Jun 8, 2011  | Issued | Apr 15, 2014 | 8,698,522 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.400<br>US1 | Utility -<br>ORG | 12/413,247 | AVERAGE INDUCTOR CURRENT MODE SWITCHING CONVERTERS                                                          | Mar 27, 2009 | Issued | Feb 21, 2012 | 8,120,335 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.401<br>US1 | Utility -<br>ORG | 11/802,960 | ADVANCED CURRENT-MODE CONTROL FOR SWITCHED REGULATORS                                                       | May 29, 2007 | Issued | Oct 12, 2010 | 7,812,585 | Linear Technology Holding LLC | Linear Technology Corporation |

|                 |                    |            |                                                                                                        |              |        |              |           |                                  |                                     |
|-----------------|--------------------|------------|--------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.402<br>US1 | Utility -<br>ORG   | 12/147,328 | SINGLE PASS INL<br>TRIM<br>ALGORITHM FOR<br>NETWORKS                                                   | Jun 26, 2008 | Issued | Mar 2, 2010  | 7,671,770 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.403<br>US1 | Utility -<br>NPREG | 11/444,435 | POWER<br>MANAGEMENT<br>MECHANISM IN<br>SYSTEM FOR<br>SUPPLYING<br>POWER OVER<br>COMMUNICATI<br>ON LINK | Jun 1, 2006  | Issued | Oct 12, 2010 | 7,814,340 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.405<br>US1 | Utility -<br>ORG   | 09/736,068 | RMS-TO-DC<br>CONVERTER<br>WITH FAULT<br>DETECTION AND<br>RECOVERY                                      | Dec 13, 2000 | Issued | Feb 4, 2003  | 6,516,291 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.405<br>US2 | Utility -<br>DIV   | 10/324,629 | RMS-TO-DC<br>CONVERTER<br>WITH FAULT<br>DETECTION AND<br>RECOVERY                                      | Dec 20, 2002 | Issued | Nov 18, 2003 | 6,651,036 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.406<br>US1 | Utility -<br>NPREG | 11/334,733 | CONTROLLING<br>POWER<br>DISTRIBUTION<br>AMONG<br>MULTIPLE WIRES<br>IN<br>COMMUNICATI<br>ON CABLE       | Jan 19, 2006 | Issued | Nov 2, 2010  | 7,827,418 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                                                 |              |        |              |           |                                  |                                     |
|-----------------|--------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.408<br>US1 | Utility -<br>NPREG | 11/227,28<br>9 | POWER<br>SOURCING<br>EQUIPMENT<br>HAVING AUTO-<br>ZERO CIRCUIT<br>FOR<br>DETERMINING<br>AND<br>CONTROLLING<br>OUTPUT<br>CURRENT | Sep 16, 2005 | Issued | Dec 29, 2009 | 7,639,469 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.409<br>US1 | Utility -<br>ORG   | 11/206,07<br>0 | WIDEBAND<br>SQUARING CELL                                                                                                       | Aug 18, 2005 | Issued | Sep 11, 2007 | 7,268,608 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.410<br>US1 | Utility -<br>ORG   | 10/981,48<br>8 | SWITCH-MODE<br>POWER SUPPLY<br>VOLTAGE<br>REGULATOR<br>AND<br>METHODOLOGY                                                       | Nov 5, 2004  | Lapsed | Apr 3, 2007  | 7,199,560 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.411<br>US1 | Utility -<br>ORG   | 10/895,09<br>5 | FLASHLESS LEAD<br>FRAME WITH<br>HORIZONTAL<br>SINGULATION                                                                       | Jul 21, 2004 | Issued | Dec 26, 2006 | 7,154,165 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.411<br>US2 | Utility -<br>DIV   | 11/500,35<br>9 | FLASHLESS LEAD<br>FRAME WITH<br>HORIZONTAL<br>SINGULATION                                                                       | Aug 8, 2006  | Issued | Aug 19, 2008 | 7,414,302 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                                                   |              |           |              |           |                                  |                                     |
|-----------------|------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.412<br>US1 | Utility -<br>ORG | 10/891,108 | CMOS DRIVER<br>WITH MINIMUM<br>SHOOT-<br>THROUGH<br>CURRENT                                                                       | Jul 15, 2004 | Issued    | Apr 24, 2007 | 7,208,984 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.412<br>US2 | Utility -<br>DIV | 11/304,820 | CMOS DRIVER<br>WITH MINIMUM<br>SHOOT-<br>THROUGH<br>CURRENT                                                                       | Dec 16, 2005 | Issued    | Sep 4, 2007  | 7,265,591 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.413<br>US1 | Utility -<br>ORG | 12/405,282 | BIDIRECTIONAL<br>POWER<br>CONVERTERS                                                                                              | Mar 17, 2009 | Issued    | Sep 17, 2013 | 8,536,840 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.414<br>US1 | Utility -<br>ORG | 10/992,945 | SYSTEM AND<br>METHOD FOR<br>TRANSFERRING<br>DUTY CYCLE<br>INFORMATION<br>IN AN ISOLATED<br>DC/DC<br>CONVERTER OR<br>OTHER CIRCUIT | Nov 22, 2004 | Issued    | Apr 3, 2007  | 7,200,014 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.415<br>US1 | Utility -<br>ORG | 11/102,863 | HOT SWAP<br>INPUT CURRENT<br>CONTROL<br>SYSTEM WITH<br>SOFT START<br>CIRCUIT AND<br>METHOD                                        | Apr 11, 2005 | Abandoned |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |            |                                                                                                              |              |        |              |           |                                  |                                     |
|-----------------|--------------------|------------|--------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.416<br>US2 | Utility -<br>CON   | 12/723,841 | INRUSH<br>CURRENT<br>CONTROL<br>SYSTEM WITH<br>SOFT START<br>CIRCUIT AND<br>METHOD                           | Mar 15, 2010 | Issued | Jun 5, 2012  | 8,194,379 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.417<br>US1 | Utility -<br>ORG   | 13/024,591 | CIRCUITS FOR<br>AND METHODS<br>OF ACCURATELY<br>MEASURING<br>TEMPERATURE<br>OF<br>SEMICONDUCTOR<br>JUNCTIONS | Feb 10, 2011 | Issued | Aug 25, 2015 | 9,116,048 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.418<br>US1 | Utility -<br>ORG   | 11/634,113 | SQUARE CELL<br>HAVING WIDE<br>DYNAMIC<br>RANGE AND<br>POWER<br>DETECTOR<br>IMPLEMENTING<br>SAME              | Dec 6, 2006  | Issued | Nov 24, 2009 | 7,622,981 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.419<br>US1 | Utility -<br>NPREG | 11/252,585 | ALLOGENEIC<br>CELLULAR<br>IMMUNOTHERA<br>PY FOR<br>OPPORTUNISTIC<br>INFECTION                                | Oct 19, 2005 | Issued | Jun 12, 2007 | 7,230,412 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |                           |                                                                                                                              |              |               |              |           |                                  |                                     |
|-----------------|------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.419<br>WO1 | Utility -<br>ORG | PCT/US20<br>06/00034<br>0 | DISTINGUISHING<br>NETWORK<br>INTERFACE<br>CARD FROM<br>SHORT CIRCUIT<br>CONDITION IN<br>POWER OVER<br>ETHERNET<br>SYSTEM     | Jan 9, 2006  | Complete<br>d |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.420<br>US1 | Utility -<br>ORG | 10/835,69<br>3            | METHODS AND<br>CIRCUITS FOR<br>FREQUENCY<br>MODULATION<br>THAT REDUCE<br>THE SPECTRAL<br>NOISE OF<br>SWITCHING<br>REGULATORS | Apr 29, 2004 | Issued        | Apr 22, 2008 | 7,362,191 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.421<br>US1 | Utility -<br>ORG | 11/282,99<br>2            | SWITCHING<br>REGULATOR<br>SLOPE<br>COMPENSATION<br>GENERATOR<br>CIRCUIT                                                      | Nov 17, 2005 | Issued        | May 27, 2008 | 7,378,822 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.421<br>WO1 | Utility -<br>ORG | PCT/US20<br>06/03079<br>7 | SWITCHING<br>REGULATOR<br>SLOPE<br>COMPENSATION<br>GENERATOR<br>CIRCUIT                                                      | Aug 7, 2006  | Complete<br>d |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                               |              |        |              |           |                               |                               |
|-----------------|------------------|------------|-----------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|-------------------------------|-------------------------------|
| 5867.422<br>US1 | Utility -<br>ORG | 11/671,628 | SYSTEMS AND METHODS FOR SWITCH RESISTANCE CONTROL IN DIGITAL TO ANALOG CONVERTERS (DACS)      | Feb 6, 2007  | Issued | Dec 29, 2009 | 7,639,168 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.423<br>US1 | Utility -<br>ORG | 11/671,666 | SYSTEMS AND METHODS FOR PROVIDING COMPACT DIGITALLY CONTROLLED TRIM OF MULTI-SEGMENT CIRCUITS | Feb 6, 2007  | Issued | Dec 23, 2008 | 7,468,686 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.424<br>US1 | Utility -<br>ORG | 10/270,799 | BIDIRECTIONAL POWER CONVERSION WITH MULTIPLE CONTROL LOOPS                                    | Oct 11, 2002 | Issued | May 17, 2005 | 6,894,461 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.424<br>US2 | Utility -<br>DIV | 11/114,267 | BIDIRECTIONAL POWER CONVERSION WITH MULTIPLE CONTROL LOOPS                                    | Apr 25, 2005 | Issued | Mar 25, 2008 | 7,348,767 | Linear Technology Holding LLC | Linear Technology Corporation |



|                 |                  |            |                                                                                                                                                         |              |           |              |           |                                  |                                     |
|-----------------|------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.424<br>US3 | Utility -<br>DIV | 12/076,302 | BIDIRECTIONAL<br>POWER<br>CONVERSION<br>WITH MULTIPLE<br>CONTROL LOOPS                                                                                  | Mar 17, 2008 | Issued    | May 26, 2009 | 7,538,532 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.425<br>US1 | Utility -<br>ORG | 11/717,647 | FEEDBACK<br>CIRCUITRY AND<br>METHODOLOGY<br>FOR SWITCHING<br>CIRCUIT<br>CAPABLE OF<br>GENERATING<br>BOTH POSITIVE<br>AND NEGATIVE<br>OUTPUT<br>VOLTAGES | Mar 14, 2007 | Issued    | Nov 2, 2010  | 7,825,665 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.427<br>US1 | Utility -<br>ORG | 10/440,080 | GRADIENT<br>INSENSITIVE<br>SPLIT-CORE<br>DIGITAL TO<br>ANALOG<br>CONVERTER                                                                              | May 15, 2003 | Issued    | Aug 30, 2005 | 6,937,178 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.427<br>US2 | Utility -<br>CON | 11/101,944 | GRADIENT<br>INSENSITIVE<br>SPLIT-CORE<br>DIGITAL TO<br>ANALOG<br>CONVERTER                                                                              | Apr 8, 2005  | Abandoned |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                                        |              |           |              |           |  |                                  |                                     |
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| 5867.427<br>US3 | Utility -<br>CON | 11/284,619 | GRADIENT<br>INSENSITIVE<br>SPLIT-CORE<br>DIGITAL TO<br>ANALOG<br>CONVERTER                                             | Nov 21, 2005 | Abandoned |              |           |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.427<br>US4 | Utility -<br>CON | 11/487,143 | GRADIENT<br>INSENSITIVE<br>SPLIT-CORE<br>DIGITAL TO<br>ANALOG<br>CONVERTER                                             | Jul 13, 2006 | Issued    | May 12, 2009 | 7,532,140 |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.428<br>US1 | Utility -<br>CIP | 11/704,441 | GRADIENT<br>INSENSITIVE<br>SPLIT-CORE<br>DIGITAL TO<br>ANALOG<br>CONVERTER                                             | Feb 8, 2007  | Issued    | Aug 19, 2008 | 7,414,561 |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.429<br>US1 | Utility -<br>ORG | 09/536,266 | CONTROL<br>CIRCUIT AND<br>METHOD FOR<br>MAINTAINING<br>HIGH<br>EFFICIENCY IN A<br>BUCK-BOOST<br>SWITCHING<br>REGULATOR | Mar 27, 2000 | Issued    | Dec 26, 2000 | 6,166,527 |  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |                |                                                                                                                                         |              |        |              |           |                                  |                                     |
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| 5867.430<br>US1 | Utility -<br>ORG   | 10/243,52<br>6 | ADJUSTABLE<br>MINIMUM PEAK<br>INDUCTOR<br>CURRENT LEVEL<br>FOR BURST<br>MODE IN<br>CURRENT-MODE<br>DC-DC<br>REGULATORS                  | Sep 12, 2002 | Issued | Apr 20, 2004 | 6,724,174 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.430<br>USR | Utility -<br>REIS  | 11/409,54<br>9 | ADJUSTABLE<br>MINIMUM PEAK<br>INDUCTOR<br>CURRENT LEVEL<br>FOR BURST<br>MODE IN<br>CURRENT-MODE<br>DC-DC<br>REGULATORS                  | Apr 20, 2006 | Issued | Dec 15, 2009 | RE41,037  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.431<br>US1 | Utility -<br>ORG   | 08/007,10<br>8 | DIGITAL TO<br>ANALOG<br>CONVERTER                                                                                                       | Jan 21, 1993 | Issued | Mar 7, 1995  | 5,396,245 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.432<br>US1 | Utility -<br>NPREG | 11/506,77<br>9 | COMBINATION<br>OF HIGH-SIDE<br>AND LOW-SIDE<br>CURRENT<br>CONTROL IN<br>SYSTEM FOR<br>PROVIDING<br>POWER OVER<br>COMMUNICATI<br>ON LINK | Aug 21, 2006 | Issued | Apr 20, 2010 | 7,702,302 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |                |                                                                                                                      |              |        |              |           |                                  |                                     |
|-----------------|------------------|----------------|----------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.433<br>US1 | Utility -<br>ORG | 11/522,40<br>9 | REDUCING<br>OSCILLATIONS<br>IN SYSTEM WITH<br>FOLDBACK<br>CURRENT LIMIT<br>WHEN<br>INDUCTIVE<br>LOAD IS<br>CONNECTED | Sep 18, 2006 | Issued | Dec 16, 2008 | 7,466,039 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.434<br>US1 | Utility -<br>ORG | 11/493,65<br>4 | CLASS AB<br>FOLDED-<br>CASCODE<br>AMPLIFIER<br>HAVING<br>CASCODE<br>COMPENSATION                                     | Jul 27, 2006 | Issued | Aug 19, 2008 | 7,414,473 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.435<br>US1 | Utility -<br>CIP | 12/174,10<br>2 | CLASS AB<br>FOLDED-<br>CASCODE<br>AMPLIFIER<br>HAVING<br>CASCODE<br>COMPENSATION                                     | Jul 16, 2008 | Issued | Dec 29, 2009 | 7,639,078 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.437<br>US1 | Utility -<br>CIP | 12/338,23<br>5 | POWER<br>MEASUREMENT<br>CIRCUIT                                                                                      | Dec 18, 2008 | Issued | Nov 1, 2011  | 8,049,487 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.438<br>US1 | Utility -<br>ORG | 10/618,06<br>6 | LOW VOLTAGE<br>HIGH GAIN<br>AMPLIFIER<br>CIRCUITS                                                                    | Jul 11, 2003 | Issued | May 10, 2005 | 6,891,433 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                        |              |        |              |           |                                  |                                     |
|-----------------|------------------|------------|----------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.439<br>US1 | Utility -<br>ORG | 10/637,714 | LOW-VOLTAGE<br>PRE-DISTORTION<br>CIRCUIT FOR<br>LINEAR-IN-DB<br>VARIABLE-GAIN<br>CELLS | Aug 8, 2003  | Issued | Dec 27, 2005 | 6,980,052 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.440<br>US1 | Utility -<br>ORG | 10/637,747 | LOW-VOLTAGE<br>HIGH DYNAMIC<br>RANGE<br>VARIABLE-GAIN<br>AMPLIFIER                     | Aug 8, 2003  | Issued | Dec 6, 2005  | 6,972,624 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.441<br>US1 | Utility -<br>ORG | 11/483,420 | RANGE<br>COMPRESSION<br>IN<br>OVERSAMPLING<br>ANALOG-TO-<br>DIGITAL<br>CONVERTERS      | Jul 7, 2006  | Issued | Mar 25, 2008 | 7,348,907 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.443<br>US1 | Utility -<br>ORG | 12/396,151 | BOOTSTRAPPED<br>SWITCH FOR<br>SAMPLING<br>VOLTAGES<br>BEYOND THE<br>SUPPLY<br>VOLTAGE  | Mar 2, 2009  | Issued | May 10, 2011 | 7,940,091 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.444<br>US1 | Utility -<br>ORG | 10/087,881 | HIGH VOLTAGE<br>TRANSISTORS<br>WITH GRADED<br>EXTENSION                                | Feb 28, 2002 | Issued | Jan 13, 2004 | 6,677,210 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |                |                                                                                                                        |              |         |              |           |                                  |                                     |
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| 5867.444<br>US2 | Utility -<br>DIV | 10/683,92<br>2 | HIGH VOLTAGE<br>TRANSISTORS<br>WITH GRADED<br>EXTENSION                                                                | Oct 10, 2003 | Issued  | May 3, 2005  | 6,888,207 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.445<br>US1 | Utility -<br>ORG | 11/681,58<br>1 | METHOD TO<br>CONTROL THE<br>OUTPUT<br>COMMON<br>MODE IN A<br>DIFFERENTIAL<br>OPAMP WITH<br>RAIL-TO-RAIL<br>INPUT STAGE | Mar 2, 2007  | Issued  | May 12, 2009 | 7,532,072 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.446<br>US1 | Utility -<br>ORG | 11/850,49<br>4 | MULTIPLE<br>OUTPUT<br>AMPLIFIERS AND<br>COMPARATORS                                                                    | Sep 5, 2007  | Issued  | Sep 28, 2010 | 7,804,286 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.447<br>PRV | Prov -<br>ORG    | 61/292,66<br>0 | CONTROLLING<br>POWER<br>RECEIVED<br>THROUGH<br>MULTIPLE BUS<br>INTERFACES IN A<br>PORTABLE<br>COMPUTING<br>DEVICE      | Jan 6, 2010  | Expired |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                    |            |                                                                                                            |              |        |              |           |                               |                               |
|-----------------|--------------------|------------|------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|-------------------------------|-------------------------------|
| 5867.447<br>US1 | Utility -<br>NPREG | 12/950,490 | CONTROLLING POWER RECEIVED THROUGH MULTIPLE BUS INTERFACES IN A PORTABLE COMPUTING DEVICE                  | Nov 19, 2010 | Issued | Apr 8, 2014  | 8,694,803 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.448<br>US1 | Utility -<br>ORG   | 12/577,358 | METHOD AND SYSTEM FOR COMMUNICATING MULTIPLE DATA SIGNALS OVER A SINGLE UNIDIRECTIONAL ISOLATION COMPONENT | Oct 12, 2009 | Issued | May 8, 2012  | 8,175,087 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.449<br>US1 | Utility -<br>ORG   | 07/050,896 | CHARGE PUMP CIRCUITRY HAVING LOW SATURATION VOLTAGE AND CURRENT-LIMITED SWITCH                             | May 15, 1987 | Issued | Mar 14, 1989 | 4,812,961 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.451<br>US1 | Utility -<br>ORG   | 11/651,921 | PROVIDING LOW AVERAGE LATENCY COMMUNICATION IN WIRELESS MESH NETWORKS                                      | Jan 9, 2007  | Issued | Aug 31, 2010 | 7,787,427 | Linear Technology Holding LLC | Linear Technology Corporation |

|                 |                    |                |                                                                                                                                                                                     |              |        |              |           |                                  |                                     |
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| 5867.452<br>US1 | Utility -<br>ORG   | 12/332,29<br>9 | DIMMER-<br>CONTROLLED<br>LEDS USING<br>FLYBACK<br>CONVERTER<br>WITH HIGH<br>POWER FACTOR                                                                                            | Dec 10, 2008 | Issued | Apr 8, 2014  | 8,692,481 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.454<br>US1 | Utility -<br>ORG   | 12/431,34<br>9 | ANALOG<br>SAMPLER WITH<br>REDUCED INPUT<br>CURRENT                                                                                                                                  | Apr 28, 2009 | Issued | Nov 27, 2012 | 8,319,527 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.455<br>US1 | Utility -<br>NPREG | 11/406,33<br>4 | POWER<br>SOURCING<br>EQUIPMENT<br>HAVING<br>BIPOLAR<br>JUNCTION<br>TRANSISTOR<br>FOR<br>CONTROLLING<br>POWER SUPPLY<br>AND<br>SUPPORTING AC<br>DISCONNECT-<br>DETECTION<br>FUNCTION | Apr 19, 2006 | Issued | Sep 6, 2011  | 8,014,412 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.456<br>US1 | Utility -<br>ORG   | 12/378,77<br>3 | LOCALIZATION<br>IN A NETWORK                                                                                                                                                        | Feb 18, 2009 | Issued | Jan 24, 2012 | 8,102,784 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |



|                 |                  |                |                                                                                                    |              |        |              |           |                                  |                                     |
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| 5867.456<br>US2 | Utility -<br>CON | 13/330,75<br>8 | LOCALIZATION<br>IN A NETWORK                                                                       | Dec 20, 2011 | Issued | Oct 29, 2013 | 8,570,904 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.457<br>US1 | Utility -<br>ORG | 12/148,41<br>1 | DEMODULATOR<br>FOR A LOW<br>POWER RADIO<br>RECEIVER                                                | Apr 18, 2008 | Issued | Mar 1, 2011  | 7,898,322 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.458<br>US1 | Utility -<br>ORG | 12/616,99<br>6 | METHOD AND<br>SYSTEM FOR<br>DEVELOPING<br>LOW NOISE<br>BANDGAP<br>REFERENCES                       | Nov 12, 2009 | Issued | Aug 13, 2013 | 8,508,211 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.459<br>US1 | Utility -<br>ORG | 12/489,18<br>4 | ADJUSTABLE<br>CURRENT LIMIT<br>SWITCHING<br>REGULATOR<br>WITH<br>CONSTANT<br>LOOP GAIN             | Jun 22, 2009 | Issued | Jul 22, 2014 | 8,786,265 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.460<br>US1 | Utility -<br>ORG | 12/275,11<br>4 | DYNAMICALLY-<br>COMPENSATED<br>CONTROLLER                                                          | Nov 20, 2008 | Issued | Mar 27, 2012 | 8,143,871 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.461<br>US1 | Utility -<br>ORG | 12/332,29<br>2 | DIMMER<br>CONTROL<br>LEAKAGE PULL<br>DOWN USING<br>MAIN POWER<br>DEVICE IN<br>FLYBACK<br>CONVERTER | Dec 10, 2008 | Issued | Sep 6, 2011  | 8,013,544 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |                |                                                                                                                                |              |        |              |           |                                  |                                     |
|-----------------|------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.462<br>US1 | Utility -<br>ORG | 12/350,53<br>2 | EXTENDING<br>INPUT TO<br>OUTPUT<br>VOLTAGE<br>RANGE IN<br>MULTIPLE<br>CHANNEL<br>SWITCHING<br>REGULATOR<br>APPLICATIONS        | Jan 8, 2009  | Issued | Nov 27, 2012 | 8,319,485 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.463<br>US1 | Utility -<br>ORG | 12/068,97<br>0 | METHOD AND<br>SYSTEM FOR<br>DETERMINING A<br>CLOCK INPUT<br>MODE                                                               | Feb 13, 2008 | Issued | Feb 2, 2010  | 7,656,216 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.464<br>US1 | Utility -<br>ORG | 11/671,64<br>6 | SYSTEMS AND<br>METHODS FOR<br>REDUCING<br>TRANSIENT<br>ERRORS ON<br>DIGITAL TO<br>ANALOG<br>CONVERTERS<br>(DACs)<br>DEGLITCHER | Feb 6, 2007  | Issued | May 20, 2008 | 7,375,671 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.465<br>US1 | Utility -<br>ORG | 11/607,89<br>9 | SAWTOOTH<br>OSCILLATOR<br>HAVING<br>CONTROLLED<br>ENDPOINTS AND<br>METHODOLOGY<br>THEREFOR                                     | Dec 4, 2006  | Issued | Sep 1, 2009  | 7,583,113 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.466<br>US1 | Utility -<br>ORG   | 09/185,14<br>4 | SYNCHRONOUS<br>RECTIFIER FOR<br>BOOST<br>CONVERTERS                                                                | Nov 3, 1998  | Issued | Nov 30, 1999 | 5,994,882 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.467<br>US1 | Utility -<br>ORG   | 09/176,39<br>7 | PIPELINED<br>SUCCESSIVE<br>APPROXIMATIO<br>N ANALOG-TO-<br>DIGITAL<br>CONVERTERS                                   | Oct 21, 1998 | Issued | Sep 26, 2000 | 6,124,818 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.468<br>US1 | Utility -<br>ORG   | 11/316,99<br>3 | SWITCHED<br>CONVERTER<br>WITH VARIABLE<br>PEAK CURRENT<br>AND VARIABLE<br>OFF-TIME<br>CONTROL                      | Dec 27, 2005 | Issued | May 5, 2009  | 7,528,587 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.469<br>US1 | Utility -<br>NPREG | 11/253,08<br>2 | ANALOG SIGNAL<br>SAMPLING<br>SYSTEM AND<br>METHOD<br>HAVING<br>REDUCED<br>AVERAGE<br>DIFFERENTIAL<br>INPUT CURRENT | Oct 17, 2005 | Issued | Aug 15, 2006 | 7,091,896 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |                           |                                                                                                                    |              |               |              |           |                                  |                                     |
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| 5867.469<br>WO1 | Utility -<br>ORG | PCT/US20<br>05/03718<br>6 | ANALOG SIGNAL<br>SAMPLING<br>SYSTEM AND<br>METHOD<br>HAVING<br>REDUCED<br>AVERAGE<br>DIFFERENTIAL<br>INPUT CURRENT | Oct 17, 2005 | Complete<br>d |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.471<br>US1 | Utility -<br>ORG | 11/783,95<br>7            | DETERMINING<br>AVERAGE<br>OUTPUT<br>CURRENT IN DC-<br>DC CONVERTER                                                 | Apr 13, 2007 | Issued        | Sep 14, 2010 | 7,795,846 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.472<br>US1 | Utility -<br>ORG | 09/240,26<br>1            | CONTROL<br>FEATURE FOR IC<br>WITHOUT USING<br>A DEDICATED<br>PIN                                                   | Jan 29, 1999 | Issued        | May 8, 2001  | 6,229,385 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.473<br>US1 | Utility -<br>ORG | 11/717,12<br>6            | METHOD AND<br>APPARATUS FOR<br>MEASURING THE<br>VOLTAGE OF A<br>POWER SOURCE                                       | Mar 13, 2007 | Issued        | Nov 24, 2009 | 7,622,893 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                                                 |              |        |              |           |                                  |                                     |
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| 5867.474<br>US1 | Utility -<br>ORG | 11/812,417 | SWITCHING<br>BATTERY<br>CHARGER WITH<br>PROGRAMMABLE<br>CURRENT<br>CONTROL AND<br>POWER<br>CONTROL                              | Jun 19, 2007 | Issued | Aug 17, 2010 | 7,777,455 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.475<br>US1 | Utility -<br>ORG | 12/287,598 | SYSTEMS AND<br>METHODS FOR<br>CHARACTERIZING<br>COMPONENT<br>RATIOS AND<br>GENERATING A<br>DIGITAL<br>REPRESENTATION<br>OF SAME | Oct 10, 2008 | Issued | Apr 27, 2010 | 7,705,765 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.476<br>US1 | Utility -<br>ORG | 11/473,331 | HIGH LINEARITY<br>LOW NOISE<br>VARIABLE GAIN<br>AMPLIFIER WITH<br>CONTINUOUS<br>GAIN CONTROL                                    | Jun 23, 2006 | Issued | Jan 8, 2008  | 7,317,357 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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|-----------------|------------------|----------------|--------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.477<br>US1 | Utility -<br>ORG | 11/219,72<br>2 | PEAK CHARGING<br>CURRENT<br>MODULATION<br>FOR BURST<br>MODE<br>CONVERSION            | Sep 7, 2005  | Issued | Feb 22, 2011 | 7,893,665 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.478<br>US1 | Utility -<br>ORG | 11/523,56<br>1 | NON-<br>PERTURBING<br>POWER SUPPLY<br>MARGIN<br>CONTROLLER                           | Sep 20, 2006 | Issued | Jun 3, 2008  | 7,382,303 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.479<br>US1 | Utility -<br>ORG | 11/524,19<br>7 | COMMON<br>MODE<br>REJECTION<br>RATIO TRIM<br>CIRCUIT AND<br>METHODOLOGY              | Sep 21, 2006 | Issued | Jun 16, 2009 | 7,548,115 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.480<br>US1 | Utility -<br>ORG | 11/476,12<br>8 | MULTI-INPUT<br>POWER SUPPLY<br>SUPERVISOR                                            | Jun 28, 2006 | Issued | May 4, 2010  | 7,711,971 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.481<br>US1 | Utility -<br>ORG | 11/408,74<br>9 | ADAPTIVE<br>CURRENT<br>REVERSAL<br>COMPARATOR                                        | Apr 21, 2006 | Issued | Oct 9, 2007  | 7,279,877 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.482<br>US1 | Utility -<br>ORG | 11/351,35<br>6 | SYSTEMS AND<br>METHODS FOR<br>REDUCING<br>INPUT CURRENT<br>IN PHOTOFLASH<br>CHARGERS | Feb 9, 2006  | Issued | Mar 11, 2008 | 7,342,365 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                                 |             |        |              |           |                                  |                                     |
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| 5867.483<br>US1 | Utility -<br>ORG | 11/445,237 | FOLDED<br>CASCODE<br>AMPLIFIER<br>HAVING<br>IMPROVED<br>SLEW<br>PERFORMANCE                                     | Jun 2, 2006 | Issued | Oct 28, 2008 | 7,443,237 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.484<br>US1 | Utility -<br>ORG | 11/101,638 | CIRCUIT AND<br>METHOD OF<br>DETECTING AND<br>RESOLVING<br>STUCK I2C<br>BUSES                                    | Apr 8, 2005 | Issued | Jan 13, 2009 | 7,478,286 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.485<br>US1 | Utility -<br>ORG | 11/444,400 | BALANCING<br>CURRENT<br>DRAWN FROM<br>MULTIPLE<br>POWER SUPPLY<br>INPUTS USING<br>MULTIPLE-INPUT<br>INDUCTORS   | Jun 1, 2006 | Issued | Jan 4, 2011  | 7,863,772 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.486<br>US1 | Utility -<br>ORG | 11/366,590 | SPREAD<br>SPECTRUM<br>MODULATION<br>OF A CLOCK<br>SIGNAL FOR<br>REDUCTION OF<br>ELECTROMAGNETIC<br>INTERFERENCE | Mar 3, 2006 | Issued | Aug 26, 2008 | 7,417,509 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.487<br>US1 | Utility -<br>ORG | 11/377,45<br>1 | BANDGAP<br>CURVATURE<br>CORRECTION<br>AND POST-<br>PACKAGE TRIM<br>IMPLEMENTED<br>THEREWITH                                             | Mar 17, 2006 | Issued | Sep 2, 2008  | 7,420,359 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.488<br>US1 | Utility -<br>ORG | 11/348,36<br>7 | SINGLE<br>FEEDBACK<br>INPUT FOR<br>REGULATION AT<br>BOTH POSITIVE<br>AND NEGATIVE<br>VOLTAGE LEVELS                                     | Feb 7, 2006  | Issued | Aug 25, 2009 | 7,579,816 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.489<br>US1 | Utility -<br>ORG | 11/499,00<br>5 | CIRCUITS AND<br>METHODS FOR<br>ADJUSTABLE<br>PEAK INDUCTOR<br>CURRENT AND<br>HYSTERESIS FOR<br>BURST MODE IN<br>SWITCHING<br>REGULATORS | Aug 4, 2006  | Issued | Aug 2, 2011  | 7,990,120 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.490<br>US1 | Utility -<br>ORG | 11/315,14<br>6 | LEVEL SHIFT<br>DELAY<br>EQUALIZATION<br>CIRCUIT AND<br>METHODOLOGY                                                                      | Dec 23, 2005 | Issued | Jun 9, 2009  | 7,545,173 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |



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| 5867.491<br>US1 | Utility -<br>ORG | 11/208,630 | SINGLE-WIRE<br>SEQUENCING<br>TECHNIQUE                                                                         | Aug 23, 2005 | Issued | Jul 27, 2010 | 7,765,420 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.492<br>US1 | Utility -<br>ORG | 11/191,968 | DUAL FET<br>OUTPUT STAGE<br>WITH<br>CONTROLLED<br>OUTPUT DV/DT<br>FOR REDUCED<br>EMI AND INPUT<br>SUPPLY NOISE | Jul 29, 2005 | Issued | Mar 31, 2009 | 7,511,390 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.493<br>US1 | Utility -<br>ORG | 11/183,960 | POWER<br>MANAGER AND<br>POWER<br>MANAGING<br>METHOD FOR<br>BATTERY-<br>POWERED<br>APPLICATION                  | Jul 19, 2005 | Issued | May 4, 2010  | 7,710,079 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.494<br>US1 | Utility -<br>ORG | 11/180,556 | SWITCHING<br>REGULATOR<br>WITH VARIABLE<br>SLOPE<br>COMPENSATION                                               | Jul 14, 2005 | Issued | Feb 2, 2010  | 7,656,142 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.495<br>US1 | Utility -<br>ORG | 11/131,338 | SWITCHING<br>REGULATOR<br>OVER VOLTAGE<br>REDUCTION<br>CIRCUIT AND<br>METHOD                                   | May 18, 2005 | Issued | Apr 14, 2009 | 7,518,351 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.496<br>US1 | Utility -<br>ORG | 11/102,87<br>6 | CIRCUIT AND<br>METHOD FOR<br>CONTROLLING<br>HYSTERESIS FOR<br>BILEVEL SIGNAL<br>TRANSITIONS | Apr 11, 2005 | Issued | Jun 3, 2008  | 7,382,167 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.497<br>US1 | Utility -<br>ORG | 10/172,87<br>4 | ULTRA-<br>WIDEBAND<br>CONSTANT GAIN<br>CMOS<br>AMPLIFIER                                    | Jun 13, 2002 | Issued | Dec 30, 2003 | 6,670,850 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.497<br>US2 | Utility -<br>CON | 10/613,42<br>0 | ULTRA-<br>WIDEBAND<br>CONSTANT GAIN<br>CMOS<br>AMPLIFIER                                    | Jul 3, 2003  | Issued | Sep 20, 2005 | 6,946,914 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.497<br>US3 | Utility -<br>CON | 11/183,28<br>9 | ULTRA-<br>WIDEBAND<br>CONSTANT GAIN<br>CMOS<br>AMPLIFIER                                    | Jul 14, 2005 | Issued | Oct 17, 2006 | 7,123,097 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.497<br>US4 | Utility -<br>CON | 11/518,02<br>7 | ULTRA-<br>WIDEBAND<br>CONSTANT GAIN<br>CMOS<br>AMPLIFIER                                    | Sep 8, 2006  | Issued | Apr 10, 2007 | 7,202,748 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.497<br>US5 | Utility -<br>CON | 11/726,98<br>8 | ULTRA-<br>WIDEBAND<br>CONSTANT GAIN<br>CMOS<br>AMPLIFIER                                    | Mar 22, 2007 | Issued | Mar 4, 2008  | 7,339,437 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.498<br>US1 | Utility -<br>NPREG | 11/252,565 | HIGH-POWER<br>FOLDBACK<br>MECHANISM IN<br>SYSTEM FOR<br>PROVIDING<br>POWER OVER<br>COMMUNICATI<br>ON LINK | Oct 19, 2005 | Issued | Jun 30, 2009 | 7,554,783 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.499<br>US1 | Utility -<br>CIP   | 11/375,578 | CLASSIFICATION<br>MECHANISM IN<br>SYSTEM FOR<br>SUPPLYING<br>POWER OVER<br>COMMUNICATI<br>ON LINK         | Mar 15, 2006 | Issued | Mar 17, 2009 | 7,504,744 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.500<br>US1 | Utility -<br>ORG   | 11/154,548 | SYSTEM FOR<br>CONTROLLING<br>FREQUENCY OF<br>OSCILLATOR                                                   | Jun 17, 2005 | Issued | Jun 12, 2007 | 7,230,497 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.501<br>US1 | Utility -<br>ORG   | 11/116,427 | HIGH-LINEARITY<br>DIFFERENTIAL<br>AMPLIFIER WITH<br>FLEXIBLE<br>COMMON-<br>MODE                           | Apr 28, 2005 | Issued | May 8, 2007  | 7,215,200 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.502<br>US1 | Utility -<br>ORG | 11/142,47<br>7 | NON-FEEDBACK<br>IMPLEMENTED<br>CONTROL OF<br>THE OUTPUT-<br>COMMON<br>MODE OF A<br>DIFFERENTIAL<br>AMPLIFIER | Jun 2, 2005  | Issued | Apr 29, 2008 | 7,365,600 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.503<br>US1 | Utility -<br>ORG | 11/052,47<br>3 | LIGHT LOAD<br>CURRENT-MODE<br>CONTROL FOR<br>SWITCHED STEP<br>UP-STEP DOWN<br>REGULATORS                     | Feb 8, 2005  | Issued | Aug 14, 2007 | 7,256,570 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.504<br>US1 | Utility -<br>ORG | 11/038,04<br>1 | COMPENSATION<br>TECHNIQUE<br>PROVIDING<br>STABILITY OVER<br>BROAD RANGE<br>OF OUTPUT<br>CAPACITOR<br>VALUES  | Jan 21, 2005 | Issued | May 15, 2007 | 7,218,082 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.505<br>US1 | Utility -<br>ORG | 11/024,47<br>3 | POWER<br>MANAGEMENT<br>CIRCUIT AND<br>METHODOLOGY<br>FOR BATTERY-<br>POWERED                                 | Dec 30, 2004 | Issued | Jun 16, 2009 | 7,548,041 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.506<br>US1 | Utility -<br>ORG | 11/024,03<br>2 | CURRENT<br>CONTROL<br>CIRCUITRY AND<br>METHODOLOGY<br>FOR<br>CONTROLLING<br>CURRENT FROM<br>CURRENT<br>CONSTRAINED<br>SOURCE | Dec 29, 2004 | Issued | Jun 8, 2010  | 7,733,061 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.507<br>US1 | Utility -<br>ORG | 11/052,10<br>4 | VOLTAGE<br>OFFSET<br>MEASUREMENT<br>FOR<br>CALIBRATION OF<br>AN INTEGRATED<br>CIRCUIT<br>AMPLIFIER                           | Feb 8, 2005  | Issued | May 15, 2007 | 7,218,171 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.508<br>US1 | Utility -<br>ORG | 10/966,10<br>1 | INRUSH<br>CURRENT SLEW<br>CONTROL<br>CIRCUIT AND<br>METHOD                                                                   | Oct 18, 2004 | Issued | Feb 12, 2008 | 7,330,065 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.509<br>US1 | Utility -<br>ORG | 10/880,527 | METHOD OF<br>FABRICATING A<br>SEMICONDUCTO<br>R DEVICE WITH<br>MULTIPLE GATE<br>OXIDE<br>THICKNESSES | Jul 1, 2004  | Issued | Jul 22, 2008 | 7,402,480 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.510<br>US1 | Utility -<br>ORG | 10/911,703 | CIRCUITRY AND<br>METHODOLOGY<br>FOR DRIVING<br>MULTIPLE LIGHT<br>EMITTING<br>DEVICES                 | Aug 5, 2004  | Issued | Oct 15, 2013 | 8,558,760 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.511<br>US1 | Utility -<br>ORG | 11/012,179 | METHOD OF<br>AND SYSTEM<br>FOR<br>REGULATING<br>OUTPUT<br>VOLTAGE                                    | Dec 16, 2004 | Issued | May 1, 2007  | 7,212,012 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.513<br>US1 | Utility -<br>ORG | 09/169,524 | METHODS AND<br>APPARATUS FOR<br>ACTIVELY<br>SNUBBING<br>WAVEFORMS IN<br>SWITCHING<br>REGULATIONS     | Oct 9, 1998  | Issued | Apr 18, 2000 | 6,051,963 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.514<br>US1 | Utility -<br>ORG | 09/113,618 | CIRCUITS AND METHODS FOR PROVIDING RAIL-TO RAIL OUTPUT WITH HIGHLY LINEAR TRANSDUCTANCE PERFORMANCE | Jul 10, 1998 | Issued | Jul 24, 2001 | 6,265,929 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.514<br>US2 | Utility -<br>DIV | 09/573,619 | CIRCUIT AND METHODS FOR GENERATING BIAS VOLTAGES TO CONTROL OUTPUT STAGE IDLE CURRENTS              | May 17, 2000 | Issued | Feb 13, 2001 | 6,188,269 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.515<br>US1 | Utility -<br>ORG | 09/114,384 | POLYPHASE SYNCHRONOUS SWITCHING VOLTAGE REGULATORS                                                  | Jul 13, 1998 | Issued | Nov 7, 2000  | 6,144,194 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.516<br>US1 | Utility -<br>ORG | 09/143,627 | MONOLITHIC FILTER GAIN CONTROL CIRCUITS AND TECHNIQUES WITH FAVORABLE NOISE BEHAVIOR                | Aug 28, 1998 | Issued | Sep 19, 2000 | 6,121,908 | Linear Technology Holding LLC | Linear Technology Corporation |

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| 5867.517<br>US1 | Utility -<br>ORG | 09/152,860 | CIRCUITS AND METHODS FOR MULTIPLE-INPUT, SINGLE-OUTPUT, LOW-DROPOUT VOLTAGE REGULATORS                               | Sep 14, 1998 | Issued | Aug 1, 2000  | 6,097,178 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.518<br>US1 | Utility -<br>ORG | 09/395,804 | CIRCUITS AND METHODS FOR DEVELOPING A REGULATED AUXILIARY OUTPUT WITH AN OVERWINDING ON A SYNCHRONOUS BUCK REGULATOR | Sep 14, 1999 | Issued | Jul 11, 2000 | 6,087,817 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.519<br>US1 | Utility -<br>ORG | 09/179,534 | HIGH-EFFICIENCY STEP-DOWN SWITCHING REGULATORS                                                                       | Oct 27, 1998 | Issued | Mar 7, 2000  | 6,034,517 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.520<br>US1 | Utility -<br>ORG | 09/240,102 | IC WITH ENHANCED LOW VOLTAGE START-UP                                                                                | Jan 29, 1999 | Issued | Dec 19, 2000 | 6,163,494 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.521<br>US1 | Utility -<br>ORG | 08/228,478 | HIGH-SPEED SWITCHING REGULATOR DRIVE CIRCUIT                                                                         | Apr 15, 1994 | Issued | Sep 30, 1997 | 5,672,988 | Linear Technology Holding LLC | Linear Technology Corporation |



|                 |                  |            |                                                                                                                             |              |        |              |           |                                  |                                     |
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| 5867.521<br>US2 | Utility -<br>CON | 08/472,538 | DUAL POLARITY<br>VOLTAGE<br>REGULATOR<br>CIRCUITS AND<br>METHODS FOR<br>PROVIDING<br>DUAL POLARITY<br>VOLTAGE<br>REGULATION | Jun 7, 1995  | Issued | Dec 31, 1996 | 5,589,761 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.523<br>US1 | Utility -<br>ORG | 09/135,229 | HARDWARE<br>IMPLEMENTATI<br>ON OF A<br>DECIMATING<br>FINITE IMPULSE<br>RESPONSE<br>FILTER                                   | Aug 17, 1998 | Issued | Aug 5, 2003  | 6,603,812 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.524<br>US1 | Utility -<br>ORG | 09/135,161 | OVERSAMPLING<br>DATA<br>CONVERTER<br>WITH GOOD<br>REJECTION<br>CAPABILITY                                                   | Aug 17, 1998 | Issued | Jan 2, 2001  | 6,169,506 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.525<br>US1 | Utility -<br>ORG | 09/135,159 | SINGLE-CYCLE<br>OVERSAMPLING<br>ANALOG-TO-<br>DIGITAL<br>CONVERTER                                                          | Aug 17, 1998 | Issued | Mar 27, 2001 | 6,208,279 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.526<br>US1 | Utility -<br>ORG | 09/151,43<br>5 | MONOLITHIC<br>INTEGRATED<br>CIRCUIT DIE<br>HEATER AND<br>METHODS FOR<br>USING SAME        | Sep 11, 1998 | Issued | Apr 4, 2000  | 6,046,433 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.527<br>US1 | Utility -<br>ORG | 09/145,53<br>6 | OPERATIONAL<br>FILTER BUILDING<br>BLOCK                                                   | Sep 2, 1998  | Issued | Aug 7, 2001  | 6,271,719 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.528<br>US1 | Utility -<br>CIP | 09/305,13<br>2 | OPERATIONAL<br>FILTER BUILDING<br>BLOCK                                                   | May 4, 1999  | Issued | Aug 7, 2001  | 6,271,720 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.529<br>US1 | Utility -<br>ORG | 09/239,04<br>7 | ERROR<br>AMPLIFIER<br>REFERENCE<br>CIRCUIT                                                | Jan 27, 1999 | Issued | Nov 7, 2000  | 6,144,250 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.530<br>US1 | Utility -<br>ORG | 09/239,04<br>8 | CURRENT<br>GENERATOR<br>CIRCUITRY WITH<br>ZERO-CURRENT<br>SHUTDOWN<br>STATE               | Jan 27, 1999 | Issued | Sep 12, 2000 | 6,118,263 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.531<br>US1 | Utility -<br>ORG | 09/258,53<br>4 | SUBSTANTIALLY<br>SWITCH<br>IMPEDANCE<br>INSENSITIVE<br>DIGITAL-TO-<br>ANALOG<br>CONVERTER | Feb 26, 1999 | Issued | Jan 30, 2001 | 6,181,263 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.532<br>US1 | Utility -<br>ORG | 10/011,504 | TIME-BASED<br>CURRENT<br>CONTROL IN<br>SWITCHING<br>REGULATORS | Nov 6, 2001  | Issued    | Jan 17, 2006 | 6,987,380 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.532<br>US2 | Utility -<br>CON | 11/244,887 | TIME-BASED<br>CURRENT<br>CONTROL IN<br>SWITCHING<br>REGULATORS | Oct 5, 2005  | Abandoned |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.533<br>US1 | Utility -<br>ORG | 09/510,181 | HIGH-SPEED,<br>CURRENT-<br>DRIVEN LATCH                        | Feb 22, 2000 | Issued    | Mar 18, 2003 | 6,535,042 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.533<br>US2 | Utility -<br>DIV | 10/350,670 | HIGH-SPEED,<br>CURRENT-<br>DRIVEN LATCH                        | Jan 22, 2003 | Issued    | Jan 25, 2005 | 6,847,245 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.533<br>US3 | Utility -<br>DIV | 10/350,927 | HIGH-SPEED,<br>CURRENT-<br>DRIVEN LATCH                        | Jan 22, 2003 | Issued    | Jun 15, 2004 | 6,750,690 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.533<br>US4 | Utility -<br>DIV | 10/761,753 | HIGH-SPEED,<br>CURRENT-<br>DRIVEN LATCH                        | Jan 20, 2004 | Issued    | Feb 13, 2007 | 7,176,736 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.533<br>US5 | Utility -<br>DIV | 11/077,297 | HIGH-SPEED,<br>CURRENT-<br>DRIVEN LATCH                        | Mar 10, 2005 | Issued    | Feb 6, 2007  | 7,173,465 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.534<br>US1 | Utility -<br>ORG | 09/390,178 | PROGRAMMABLE<br>CONFIGURATION,<br>LEVEL AND<br>OUTPUT<br>VOLTAGE<br>RANGE CIRCUITS<br>AND METHODS<br>FOR SIGNAL<br>PROCESSORS | Sep 7, 1999  | Issued | Oct 30, 2001 | 6,310,567 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.535<br>US1 | Utility -<br>CIP | 09/932,518 | CIRCUITS,<br>SYSTEMS, AND<br>METHODS FOR<br>SIGNAL<br>PROCESSORS<br>THAT BUFFER A<br>SIGNAL<br>DEPENDENT<br>CURRENT           | Aug 17, 2001 | Issued | Dec 10, 2002 | 6,492,924 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.536<br>US1 | Utility -<br>ORG | 09/617,179 | SLOPE<br>COMPENSATION<br>CIRCUIT<br>UTILIZING CMOS<br>LINEAR EFFECTS                                                          | Jul 17, 2000 | Issued | Feb 18, 2003 | 6,522,116 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.537<br>US1 | Utility -<br>ORG | 09/576,517 | CANCELLATION<br>OF SLOPE<br>COMPENSATION<br>EFFECT ON<br>CURRENT LIMIT                                                        | May 23, 2000 | Issued | Dec 24, 2002 | 6,498,466 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.537<br>US2 | Utility -<br>CON | 10/261,916 | CANCELLATION<br>OF SLOPE<br>COMPENSATION<br>EFFECT ON<br>CURRENT LIMIT                                                                                   | Sep 30, 2002 | Issued | Aug 26, 2003 | 6,611,131 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.538<br>US1 | Utility -<br>ORG | 09/397,629 | LOAD-<br>GENERATED<br>DRIVE,<br>SUBSTANTIALLY<br>NO QUIESCENT<br>CURRENT,<br>TECHNIQUES<br>AND CIRCUITS<br>FOR HIGH SPEED<br>SWITCHING OF<br>TRANSISTORS | Sep 15, 1999 | Issued | Mar 11, 2003 | 6,531,909 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.538<br>US2 | Utility -<br>CON | 10/350,552 | LOAD-<br>GENERATED<br>DRIVE,<br>SUBSTANTIALLY<br>NO QUIESCENT<br>CURRENT,<br>TECHNIQUES<br>AND CIRCUITS<br>FOR HIGH SPEED<br>SWITCHING OF<br>TRANSISTORS | Jan 22, 2003 | Issued | Mar 1, 2005  | 6,861,892 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.538<br>US3 | Utility -<br>CON | 11/040,357 | LOAD-GENERATED DRIVE, NO QUIESCENT CURRENT, TECHNIQUES AND CIRCUITS FOR HIGH SPEED SWITCHING OF TRANSISTORS | Jan 21, 2005 | Issued | Feb 6, 2007  | 7,173,474 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.539<br>US1 | Utility -<br>ORG | 09/544,837 | LOW-VOLTAGE, CURRENT-FOLDED SIGNAL MODULATORS AND METHODS                                                   | Apr 6, 2000  | Issued | Oct 9, 2001  | 6,300,845 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.540<br>US1 | Utility -<br>ORG | 09/721,140 | HIGH-EFFICIENCY, LOW NOISE, INDUCTORLESS STEP-DOWN DC/DC CONVERTER                                          | Nov 22, 2000 | Issued | Aug 20, 2002 | 6,438,005 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.541<br>US1 | Utility -<br>ORG | 09/457,628 | DYNAMIC ERROR COMPENSATION IN TRACK-AND-HOLD CIRCUITS                                                       | Dec 8, 1999  | Issued | Aug 28, 2001 | 6,281,717 | Linear Technology Holding LLC | Linear Technology Corporation |

|                 |                  |                |                                                                                                    |              |        |              |           |                                  |                                     |
|-----------------|------------------|----------------|----------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.542<br>US1 | Utility -<br>ORG | 09/564,10<br>8 | HIGH VOLTAGE<br>MOS<br>TRANSISTOR<br>WITH GATE<br>EXTENSION                                        | May 3, 2000  | Issued | Dec 10, 2002 | 6,492,678 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.542<br>US2 | Utility -<br>DIV | 10/272,68<br>8 | HIGH VOLTAGE<br>MOS<br>TRANSISTOR<br>WITH GATE<br>EXTENSION                                        | Oct 15, 2002 | Issued | Sep 28, 2004 | 6,797,549 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.542<br>US3 | Utility -<br>CON | 10/878,70<br>3 | HIGH VOLTAGE<br>MOS<br>TRANSISTOR<br>WITH GATE<br>EXTENSION                                        | Jun 28, 2004 | Issued | May 20, 2008 | 7,374,982 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.543<br>US1 | Utility -<br>ORG | 09/593,02<br>1 | OVERSAMPLING<br>ANALOG-TO-<br>DIGITAL<br>CONVERTER<br>WITH<br>IMPROVED DC<br>OFFSET<br>PERFORMANCE | Jun 13, 2000 | Issued | Jun 25, 2002 | 6,411,242 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                                                                        |              |        |              |           |                                  |                                     |
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| 5867.544<br>US1 | Utility -<br>ORG | 08/036,047 | CONTROL<br>CIRCUIT AND<br>METHOD FOR<br>MAINTAINING<br>HIGH<br>EFFICIENCY<br>OVER BROAD<br>CURRENT<br>RANGES IN A<br>SWITCHING<br>REGULATOR<br>CIRCUIT | Mar 23, 1993 | Issued | Jan 2, 1996  | 5,481,178 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.544<br>US4 | Utility -<br>CON | 08/799,467 | CONTROL<br>CIRCUIT AND<br>METHOD FOR<br>MAINTAINING<br>HIGH<br>EFFICIENCY<br>OVER BROAD<br>CURRENT<br>RANGES IN A<br>SWITCHING<br>REGULATOR<br>CIRCUIT | Feb 13, 1997 | Issued | Mar 24, 1998 | 5,731,694 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |



|                 |                  |                |                                                                                                                                                        |              |        |              |           |                                  |                                     |
|-----------------|------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.544<br>US5 | Utility -<br>DIV | 08/978,16<br>7 | CONTROL<br>CIRCUIT AND<br>METHOD FOR<br>MAINTAINING<br>HIGH<br>EFFICIENCY<br>OVER BROAD<br>CURRENT<br>RANGES IN A<br>SWITCHING<br>REGULATOR<br>CIRCUIT | Nov 25, 1997 | Issued | Nov 30, 1999 | 5,994,885 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.544<br>US6 | Utility -<br>CON | 09/395,89<br>5 | CONTROL<br>CIRCUIT AND<br>METHOD FOR<br>MAINTAINING<br>HIGH<br>EFFICIENCY<br>OVER BROAD<br>CURRENT<br>RANGES IN A<br>SWITCHING<br>REGULATOR<br>CIRCUIT | Sep 14, 1999 | Issued | Oct 16, 2001 | 6,304,066 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                                                                        |              |        |              |           |                                  |                                     |
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| 5867.544<br>US7 | Utility -<br>CON | 09/978,120 | CONTROL<br>CIRCUIT AND<br>METHOD FOR<br>MAINTAINING<br>HIGH<br>EFFICIENCY<br>OVER BROAD<br>CURRENT<br>RANGES IN A<br>SWITCHING<br>REGULATOR<br>CIRCUIT | Oct 15, 2001 | Issued | Jun 17, 2003 | 6,580,258 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.545<br>US1 | Utility -<br>ORG | 09/677,158 | MAINTAINING<br>CONSTANT<br>AMOUNT OF<br>SLOPE<br>COMPENSATION<br>REGARDLESS OF<br>SWITCHING<br>FREQUENCY<br>DURING<br>SYNCHRONIZATI<br>ON              | Oct 2, 2000  | Issued | Apr 9, 2002  | 6,369,665 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.546<br>US1 | Utility -<br>ORG | 09/537,027 | DUAL INPUT,<br>SINGLE OUTPUT<br>POWER SUPPLY                                                                                                           | Mar 28, 2000 | Issued | Nov 21, 2000 | 6,150,803 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.547<br>US1 | Utility -<br>ORG | 09/503,549 | POLYPHASE<br>PWM<br>REGULATOR<br>WITH HIGH<br>EFFICIENCY AT<br>LIGHT LOADS                                                                             | Feb 14, 2000 | Issued | Oct 12, 2004 | 6,803,752 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |                |                                                                                                |              |        |              |           |                                  |                                     |
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| 5867.547<br>US2 | Utility -<br>CON | 09/920,46<br>3 | POLYPHASE<br>PWM<br>CONVERTER<br>WITH HIGH<br>EFFICIENCY AT<br>LIGHT LOADS                     | Aug 1, 2001  | Issued | Jul 15, 2003 | 6,593,724 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.547<br>US3 | Utility -<br>CON | 09/995,70<br>1 | POLYPHASE<br>PWM<br>CONVERTER<br>WITH HIGH<br>EFFICIENCY AT<br>LIGHT LOADS                     | Nov 29, 2001 | Issued | Oct 8, 2002  | 6,462,525 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.548<br>US1 | Utility -<br>ORG | 09/628,53<br>4 | CIRCUITS AND<br>METHODS FOR<br>CONTROLLING<br>LOAD SHARING<br>BY MULTIPLE<br>POWER<br>SUPPLIES | Jul 31, 2000 | Issued | Oct 15, 2002 | 6,465,909 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.548<br>US2 | Utility -<br>CON | 10/180,41<br>8 | CIRCUITS AND<br>METHODS FOR<br>CONTROLLING<br>LOAD SHARING<br>BY MULTIPLE<br>POWER<br>SUPPLIES | Jun 24, 2002 | Issued | Aug 19, 2003 | 6,608,402 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.549<br>US1 | Utility -<br>ORG | 09/713,90<br>8 | ADAPTIVE<br>FILTERING FOR<br>IMPROVED RMS-<br>TO-DC SIGNAL<br>CONVERSION                       | Nov 16, 2000 | Issued | Dec 31, 2002 | 6,501,329 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                                                            |              |        |              |           |                               |                               |
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| 5867.550<br>US1 | Utility -<br>ORG | 10/394,335 | CIRCUITS AND METHODS FOR PROVIDING MULTIPLE PHASE SWITCHING REGULATORS WHICH EMPLOY THE INPUT CAPACITOR VOLTAGE SIGNAL FOR CURRENT SENSING | Mar 19, 2003 | Issued | Sep 6, 2005  | 6,940,261 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.550<br>US2 | Utility -<br>CON | 11/173,616 | CIRCUITS AND METHODS FOR PROVIDING MULTIPLE PHASE SWITCHING REGULATORS WHICH EMPLOY THE INPUT CAPACITOR VOLTAGE SIGNAL FOR CURRENT SENSING | Jul 1, 2005  | Issued | Jan 16, 2007 | 7,164,258 | Linear Technology Holding LLC | Linear Technology Corporation |

|                 |                  |            |                                                                                                         |              |        |              |           |                                  |                                     |
|-----------------|------------------|------------|---------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.551<br>US1 | Utility -<br>ORG | 09/693,058 | FLEXIBLE<br>MONOLITHIC<br>CONTINUOUS-<br>TIME ANALOG<br>LOW-PASS<br>FILTER WITH<br>MINIMAL<br>CIRCUITRY | Oct 20, 2000 | Issued | Feb 5, 2002  | 6,344,773 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.552<br>US1 | Utility -<br>ORG | 09/804,348 | CMOS SWITCH<br>WITH<br>LINEARIZED<br>GATE<br>CAPACITANCE                                                | Mar 12, 2001 | Issued | Feb 18, 2003 | 6,522,187 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.553<br>US1 | Utility -<br>ORG | 10/173,452 | GAIN<br>NORMALIZATIO<br>N FOR<br>AUTOMATIC<br>CONTROL OF<br>LIGHTWAVE<br>EMITTERS                       | Jun 13, 2002 | Issued | Dec 13, 2005 | 6,975,658 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.554<br>US1 | Utility -<br>ORG | 09/721,600 | CHARGE PUMP<br>DC/DC<br>CONVERTERS<br>WITH REDUCED<br>INPUT NOISE                                       | Nov 21, 2000 | Issued | Jun 25, 2002 | 6,411,531 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                                                                   |              |        |              |           |                                  |                                     |
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| 5867.555<br>US1 | Utility -<br>ORG | 09/684,317 | PRECISION<br>OSCILLATOR<br>CIRCUITS AND<br>METHODS WITH<br>SWITCHED<br>CAPACITOR<br>FREQUENCY<br>CONTROL AND<br>FREQUENCY-<br>SETTING<br>RESISTOR | Oct 6, 2000  | Issued | Jan 29, 2002 | 6,342,817 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.556<br>US1 | Utility -<br>CIP | 09/988,930 | PRECISION<br>OSCILLATOR<br>CIRCUITS AND<br>METHODS WITH<br>SWITCHED<br>CAPACITOR<br>FREQUENCY<br>CONTROL AND<br>FREQUENCY-<br>SETTING<br>RESISTOR | Nov 21, 2001 | Issued | Sep 2, 2003  | 6,614,313 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.557<br>US1 | Utility -<br>ORG | 09/708,791 | POWER<br>CONTROLLERS<br>FOR AMPLITUDE<br>MODULATION                                                                                               | Nov 7, 2000  | Issued | Sep 30, 2003 | 6,628,165 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                                                          |              |        |              |           |                               |                               |
|-----------------|------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|-------------------------------|-------------------------------|
| 5867.558<br>US1 | Utility -<br>ORG | 09/789,960 | SYSTEMS AND METHODS FOR CONTROLLING THE CHARGE PROFILE DURING THE COMMUTATION EVENT OF A SYNCHRONOUS SWITCHING TRANSISTOR IN A REGULATOR | Feb 20, 2001 | Issued | Jan 7, 2003  | 6,504,351 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.559<br>US1 | Utility -<br>ORG | 09/853,287 | METHODS AND APPARATUS FOR POWER MEASURING RECEIVER                                                                                       | May 10, 2001 | Issued | Mar 18, 2003 | 6,534,966 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.559<br>US2 | Utility -<br>CON | 10/368,089 | METHODS AND APPARATUS FOR POWER MEASURING RECEIVER                                                                                       | Feb 13, 2003 | Issued | Dec 28, 2004 | 6,836,105 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.560<br>US1 | Utility -<br>ORG | 09/892,652 | GATE PROTECTION CLAMPING CIRCUITS AND TECHNIQUES WITH CONTROLLED OUTPUT DISCHARGE CURRENT                                                | Jun 28, 2001 | Issued | Oct 1, 2002  | 6,459,321 | Linear Technology Holding LLC | Linear Technology Corporation |

|                 |                  |                |                                                                                                                                         |              |        |              |           |                                  |                                     |
|-----------------|------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.561<br>US1 | Utility -<br>ORG | 09/735,33<br>1 | APPARATUS<br>AND METHODS<br>FOR<br>PERFORMING<br>RMS-TO-DC<br>CONVERSION<br>UTILIZING<br>CLOCK<br>DITHERING                             | Dec 12, 2000 | Issued | Mar 26, 2002 | 6,362,677 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.562<br>US1 | Utility -<br>ORG | 09/898,24<br>5 | ANALOG<br>COMPUTATION<br>CIRCUITS USING<br>SYNCHRONOUS<br>DEMODULATION<br>AND POWER<br>METERS AND<br>ENERGY METERS<br>USING THE<br>SAME | Jul 3, 2001  | Issued | Jul 1, 2003  | 6,587,061 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.563<br>US1 | Utility -<br>ORG | 09/837,65<br>8 | CONSTANT-<br>CURRENT/CONS<br>TANT-VOLTAGE<br>CIRCUIT<br>ARCHITECTURE                                                                    | Apr 18, 2001 | Issued | Feb 18, 2003 | 6,522,118 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.563<br>US2 | Utility -<br>CON | 10/106,49<br>9 | CONSTANT-<br>CURRENT/<br>CONSTANT-<br>VOLTAGE<br>CURRENT<br>SUPPLY                                                                      | Mar 27, 2002 | Issued | May 27, 2003 | 6,570,372 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |



|                 |                   |                |                                                                      |              |        |              |           |                                  |                                     |
|-----------------|-------------------|----------------|----------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.563<br>US3 | Utility -<br>CON  | 10/443,29<br>9 | CONSTANT-<br>CURRENT/CONS<br>TANT-VOLTAGE<br>CIRCUIT<br>ARCHITECTURE | May 21, 2003 | Issued | Mar 2, 2004  | 6,700,364 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.563<br>US4 | Utility -<br>CON  | 10/716,12<br>9 | CONSTANT-<br>CURRENT/CONS<br>TANT-VOLTAGE<br>CIRCUIT<br>ARCHITECTURE | Nov 17, 2003 | Issued | Nov 16, 2004 | 6,819,094 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.564<br>US1 | Utility -<br>ORG  | 09/921,46<br>6 | CIRCUITS AND<br>TECHNIQUES<br>FOR CAPACITOR<br>CHARGING<br>CIRCUITS  | Aug 3, 2001  | Issued | Feb 11, 2003 | 6,518,733 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.564<br>US2 | Utility -<br>CON  | 10/324,62<br>8 | CIRCUITS AND<br>TECHNIQUES<br>FOR CAPACITOR<br>CHARGING<br>CIRCUITS  | Dec 18, 2002 | Issued | Oct 21, 2003 | 6,636,021 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.564<br>USX | Utility -<br>REEX | 95/000,05<br>1 | CIRCUITS AND<br>TECHNIQUES<br>FOR CAPACITOR<br>CHARGING<br>CIRCUITS  | Sep 23, 2004 | Issued | Oct 27, 2009 |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                   |                |                                                                                                                              |              |        |              |           |                                  |                                     |
|-----------------|-------------------|----------------|------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.564<br>UX2 | Utility -<br>REEX | 95/000,05<br>2 | CIRCUITS AND<br>TECHNIQUES<br>FOR CAPACITOR<br>CHARGING<br>CIRCUITS                                                          | Sep 23, 2004 | Issued | Sep 8, 2009  |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.566<br>US1 | Utility -<br>ORG  | 09/789,86<br>6 | CIRCUITRY FOR<br>IMPROVING THE<br>EFFICIENCY OF A<br>SWITCHING<br>REGULATOR BY<br>REDUCING<br>REVERSE<br>RECOVERY<br>CURRENT | Feb 20, 2001 | Issued | Dec 17, 2002 | 6,495,993 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.567<br>US1 | Utility -<br>ORG  | 10/008,63<br>7 | CIRCUITS AND<br>METHODS FOR<br>EXTENDING THE<br>INPUT<br>COMMON<br>MODE VOLTAGE<br>RANGE OF JFET<br>OP-AMPS                  | Dec 4, 2001  | Issued | May 13, 2003 | 6,563,381 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.568<br>US1 | Utility -<br>ORG  | 10/015,97<br>2 | CIRCUITS AND<br>METHODS FOR<br>CURRENT<br>MEASUREMENT<br>S REFERRED TO<br>A PRECISION<br>IMPEDANCE                           | Nov 1, 2001  | Issued | Sep 13, 2005 | 6,944,556 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                  |              |        |              |           |                               |                               |
|-----------------|------------------|------------|----------------------------------------------------------------------------------|--------------|--------|--------------|-----------|-------------------------------|-------------------------------|
| 5867.568<br>US2 | Utility -<br>DIV | 11/176,553 | CIRCUITS AND METHODS FOR CURRENT MEASUREMENTS REFERRED TO A PRECISION IMPEDANCE  | Jul 6, 2005  | Issued | Sep 5, 2006  | 7,103,487 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.568<br>US3 | Utility -<br>CON | 11/489,378 | CIRCUITS AND METHODS FOR CURRENT MEASUREMENTS REFERRED TO A PRECISION IMPEDANCE  | Jul 18, 2006 | Issued | Jul 17, 2007 | 7,246,016 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.569<br>US1 | Utility -<br>ORG | 09/986,256 | DRIVER CIRCUITRY WITH TUNED OUTPUT IMPEDANCE                                     | Nov 8, 2001  | Issued | Feb 18, 2003 | 6,522,083 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.570<br>US1 | Utility -<br>ORG | 10/144,160 | SYNTHETIC CIRCUIT COMPONENT AND AMPLIFIER APPLICATIONS                           | May 10, 2002 | Issued | Apr 12, 2005 | 6,879,215 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.571<br>US1 | Utility -<br>ORG | 10/010,398 | CIRCUIT AND METHOD FOR REDUCING QUIESCENT CURRENT IN A VOLTAGE REFERENCE CIRCUIT | Dec 5, 2001  | Issued | Apr 8, 2003  | 6,545,530 | Linear Technology Holding LLC | Linear Technology Corporation |

|                 |                  |            |                                                                                                                                                            |              |        |              |           |                                  |                                     |
|-----------------|------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.572<br>US1 | Utility -<br>ORG | 10/066,030 | LEADFRAME<br>WITH SUPPORT<br>MEMBERS                                                                                                                       | Jan 31, 2002 | Issued | Mar 9, 2004  | 6,703,692 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.573<br>US1 | Utility -<br>ORG | 10/342,415 | SYSTEMS AND<br>METHODS FOR<br>CONSERVING<br>ENERGY IN A<br>SWITCHING<br>CIRCUIT                                                                            | Jan 13, 2003 | Issued | Oct 26, 2004 | 6,809,503 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.574<br>US1 | Utility -<br>ORG | 10/207,446 | BOOTSTRAP<br>CIRCUIT TO<br>CANCEL INPUT<br>BIAS CURRENTS<br>OF A<br>DIFFERENTIAL<br>AMPLIFIER OVER<br>MOST OF<br>COMMON-<br>MODE INPUT<br>VOLTAGE<br>RANGE | Jul 26, 2002 | Issued | Oct 21, 2003 | 6,636,111 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.575<br>US1 | Utility -<br>ORG | 10/104,808 | CIRCUITS AND<br>METHODS FOR A<br>VARIABLE<br>OVERSAMPLE<br>RATIO DELTA-<br>SIGMA ANALOG-<br>TO-DIGITAL<br>CONVERTER                                        | Mar 21, 2002 | Issued | Oct 28, 2003 | 6,639,526 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                              |              |        |              |           |                               |                               |
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| 5867.575<br>US2 | Utility -<br>CON | 10/695,679 | CIRCUITS AND METHODS FOR A VARIABLE OVERSAMPLE RATIO DELTA-SIGMA ANALOG-TO-DIGITAL CONVERTER | Oct 28, 2003 | Issued | Sep 21, 2004 | 6,795,007 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.576<br>US1 | Utility -<br>ORG | 09/411,150 | APPARATUS AND METHODS FOR PERFORMING RMS-TO-DC CONVERSION WITH BIPOLAR INPUT SIGNAL RANGE    | Oct 1, 1999  | Issued | Mar 19, 2002 | 6,359,576 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.577<br>US1 | Utility -<br>ORG | 10/430,837 | CIRCUITS AND METHODS FOR ACCURATELY SETTING A PHASE SHIFT                                    | May 5, 2003  | Issued | Jun 1, 2004  | 6,744,296 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.578<br>US1 | Utility -<br>ORG | 10/412,778 | HIGH CAPACITANCE INTEGRATED CIRCUITS                                                         | Apr 11, 2003 | Issued | Jan 29, 2008 | 7,323,928 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.579<br>US1 | Utility -<br>ORG | 10/444,489 | VOLTAGE OVERSHOOT REDUCTION CIRCUITS                                                         | May 23, 2003 | Issued | Feb 8, 2005  | 6,853,565 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.579<br>US2 | Utility -<br>CON | 11/052,370 | VOLTAGE OVERSHOOT REDUCTION CIRCUITS                                                         | Feb 7, 2005  | Issued | Apr 4, 2006  | 7,023,713 | Linear Technology Holding LLC | Linear Technology Corporation |

|                 |                  |            |                                                                                                 |              |        |              |           |                               |                               |
|-----------------|------------------|------------|-------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|-------------------------------|-------------------------------|
| 5867.580<br>US1 | Utility -<br>ORG | 10/728,021 | METHODS AND CIRCUITS FOR PROGRAMMABLE AUTOMATIC BURST MODE CONTROL USING AVERAGE OUTPUT CURRENT | Dec 3, 2003  | Issued | Apr 18, 2006 | 7,030,596 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.581<br>US1 | Utility -<br>ORG | 10/726,964 | LOW VOLTAGE PULL-DOWN CIRCUIT                                                                   | Dec 2, 2003  | Issued | Sep 27, 2005 | 6,949,965 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.581<br>US2 | Utility -<br>CON | 11/200,711 | LOW VOLTAGE PULL-DOWN CIRCUIT                                                                   | Aug 9, 2005  | Issued | Nov 6, 2007  | 7,292,076 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.582<br>US1 | Utility -<br>ORG | 10/722,808 | METHODS AND CIRCUITS FOR PROGRAMMABLE CURRENT LIMIT PROTECTION                                  | Nov 26, 2003 | Issued | Mar 28, 2006 | 7,019,507 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.583<br>US1 | Utility -<br>ORG | 10/761,502 | METHODS AND CIRCUITS FOR MORE ACCURATELY MIRRORING CURRENT OVER A WIDE RANGE OF INPUT CURRENT   | Jan 20, 2004 | Issued | May 24, 2005 | 6,897,717 | Linear Technology Holding LLC | Linear Technology Corporation |

|                 |                  |                |                                                                                                                |              |        |              |           |                                  |                                     |
|-----------------|------------------|----------------|----------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.584<br>US1 | Utility -<br>ORG | 10/897,05<br>3 | METHODS AND<br>CIRCUITS FOR<br>SELECTABLE<br>GAIN<br>AMPLIFICATION<br>BY<br>SUBTRACTING<br>GAINS               | Jul 21, 2004 | Issued | Aug 29, 2006 | 7,098,733 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.585<br>US1 | Utility -<br>ORG | 10/761,50<br>1 | METHODS AND<br>CIRCUITS FOR<br>TRACKING AND<br>SEQUENCING<br>MULTIPLE<br>POWER<br>SUPPLIES                     | Jan 20, 2004 | Issued | Mar 11, 2008 | 7,342,328 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.586<br>US1 | Utility -<br>ORG | 10/779,29<br>2 | BUFFERED<br>OVERSAMPLING<br>ANALOG-TO-<br>DIGITAL<br>CONVERTER<br>WITH<br>IMPROVED DC<br>OFFSET<br>PERFORMANCE | Feb 12, 2004 | Issued | Aug 9, 2005  | 6,927,717 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.587<br>US1 | Utility -<br>ORG | 10/962,30<br>2 | CIRCUITS AND<br>METHODS FOR<br>FLEXIBLE<br>CURRENT<br>PARTITIONING<br>IN MONOLITHIC<br>SWITCHING<br>REGULATORS | Oct 8, 2004  | Issued | Jan 30, 2007 | 7,170,195 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                   |                |                                                                                                                                |              |        |              |           |                                  |                                     |
|-----------------|-------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.588<br>US1 | Utility -<br>ORG  | 11/006,74<br>6 | SYSTEM AND<br>METHOD FOR<br>DETERMINING<br>LOAD CURRENT<br>IN SWITCHING<br>REGULATORS<br>OPERABLE IN<br>PULSE SKIPPING<br>MODE | Dec 8, 2004  | Issued | Jan 9, 2007  | 7,161,333 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.589<br>US1 | Utility -<br>ORG  | 11/073,72<br>2 | METHOD AND<br>CIRCUIT FOR<br>DRIVING A GATE<br>OF A MOS<br>TRANSISTOR<br>NEGATIVE                                              | Mar 8, 2005  | Issued | May 29, 2007 | 7,224,204 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.590<br>US1 | Utility -<br>ORG  | 06/932,01<br>4 | ADAPTIVE<br>TRANSISTOR<br>DRIVE CIRCUIT                                                                                        | Nov 18, 1986 | Lapsed | Jul 5, 1988  | 4,755,741 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.590<br>USX | Utility -<br>REEX | 90/002,03<br>5 | ADAPTIVE<br>TRANSISTOR<br>DRIVE CIRCUIT                                                                                        | Jun 1, 1990  | Issued | May 14, 1991 |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.590<br>UX2 | Utility -<br>REEX | 90/003,41<br>9 | ADAPTIVE<br>TRANSISTOR<br>DRIVE CIRCUIT                                                                                        | Apr 28, 1994 | Issued | Dec 26, 1995 |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.590<br>UX3 | Utility -<br>REEX | 90/003,56<br>1 | ADAPTIVE<br>TRANSISTOR<br>DRIVE CIRCUIT                                                                                        | Sep 9, 1994  | Issued | Dec 26, 1995 |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.591<br>US1 | Utility -<br>ORG  | 06/932,15<br>9 | BREAKPOINT<br>COMPENSATION<br>AND THERMAL<br>LIMIT CIRCUIT                                                                     | Nov 18, 1986 | Issued | Dec 6, 1988  | 4,789,819 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |



|                 |                   |                |                                                                                              |              |        |              |           |                                  |                                     |
|-----------------|-------------------|----------------|----------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.592<br>US2 | Utility -<br>CON  | 07/082,98<br>9 | SWITCHING<br>VOLTAGE<br>REGULATOR<br>CIRCUIT                                                 | Aug 3, 1987  | Issued | Apr 18, 1989 | 4,823,070 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.592<br>US5 | Utility -<br>REIS | 08/794,37<br>4 | SWITCHING<br>VOLTAGE<br>REGULATOR<br>CIRCUIT                                                 | Dec 10, 1996 | Lapsed | Apr 18, 2006 | RE39,065  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.597<br>US1 | Utility -<br>ORG  | 07/985,88<br>1 | LEAD FRAME<br>CAPACITOR AND<br>CAPACITIVELY-<br>COUPLED<br>ISOLATOR<br>CIRCUIT USING<br>SAME | Dec 3, 1992  | Issued | Aug 22, 1995 | 5,444,600 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.597<br>US3 | Utility -<br>DIV  | 08/401,02<br>7 | LEAD FRAME<br>CAPACITOR AND<br>CAPACITIVELY-<br>COUPLED<br>ISOLATOR<br>CIRCUIT USING<br>SAME | Mar 8, 1995  | Issued | Dec 31, 1996 | 5,589,709 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.597<br>US4 | Utility -<br>CON  | 08/401,02<br>8 | LEAD FRAME<br>CAPACITOR AND<br>CAPACITIVELY-<br>COUPLED<br>ISOLATOR<br>CIRCUIT USING<br>SAME | Mar 8, 1995  | Issued | Jul 20, 1999 | 5,926,358 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |                |                                                                                                                                       |              |        |              |           |                                  |                                     |
|-----------------|------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.597<br>US5 | Utility -<br>DIV | 08/401,03<br>3 | PROCESS FOR<br>MANUFACTURING<br>A LEAD FRAME<br>CAPACITOR AND<br>CAPACITIVELY-<br>COUPLED<br>ISOLATOR<br>CIRCUIT USING<br>SAME        | Mar 8, 1995  | Issued | Jul 22, 1997 | 5,650,357 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.597<br>US6 | Utility -<br>CON | 08/807,19<br>7 | LEAD FRAME<br>CAPACITOR AND<br>CAPACITIVELY<br>COUPLED<br>ISOLATOR<br>CIRCUIT                                                         | Feb 27, 1997 | Issued | Aug 31, 1999 | 5,945,728 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.601<br>US1 | Utility -<br>CIP | 08/483,37<br>4 | FLUORESCENT-<br>LAMP<br>EXCITATION<br>CIRCUIT USING A<br>PIEZOELECTRIC<br>ACOUSTIC<br>TRANSFORMER<br>AND METHODS<br>FOR USING<br>SAME | Jun 7, 1995  | Issued | Aug 20, 1996 | 5,548,189 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.602<br>US1 | Utility -<br>ORG | 08/073,68<br>4 | TUNABLE FILTER<br>NETWORK<br>HAVING DC<br>ACCURACY                                                                                    | Jun 9, 1993  | Issued | Jun 20, 1995 | 5,426,393 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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|-----------------|------------------|------------|--------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.603<br>US1 | Utility -<br>ORG | 08/286,526 | TUNABLE<br>OPERATIONAL<br>TRANSCONDUCT<br>ANCE AMPLIFIER<br>HAVING HIGH<br>LINEARITY | Aug 5, 1994  | Issued | Nov 7, 1995  | 5,465,072 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.604<br>US1 | Utility -<br>ORG | 07/518,151 | ELECTROSTATIC<br>DISCHARGE<br>CLAMP USING<br>VERTICAL NPN<br>TRANSISTOR              | May 3, 1990  | Issued | May 18, 1993 | 5,212,618 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.605<br>US1 | Utility -<br>ORG | 06/909,973 | LOW PASS<br>FILTER CIRCUIT                                                           | Sep 22, 1986 | Issued | Nov 8, 1988  | 4,783,635 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.606<br>US1 | Utility -<br>ORG | 06/932,714 | OUTPUT<br>IMPEDANCE<br>COMPENSATION<br>CIRCUIT                                       | Nov 19, 1986 | Issued | Sep 13, 1988 | 4,771,227 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.607<br>US1 | Utility -<br>ORG | 06/932,715 | CURRENT<br>BOOSTED<br>SWITCHING<br>REGULATOR                                         | Nov 19, 1986 | Lapsed | Mar 15, 1988 | 4,731,719 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.609<br>US1 | Utility -<br>ORG | 07/114,439 | DUAL<br>TRANSISTOR<br>OUTPUT STAGE                                                   | Oct 28, 1987 | Issued | Dec 20, 1988 | 4,792,745 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.610<br>US1 | Utility -<br>ORG | 07/312,218 | IMPEDANCE<br>CONTROL<br>CIRCUIT FOR AN<br>INTEGRATED<br>CIRCUIT NODE                 | Feb 21, 1989 | Issued | Oct 8, 1991  | 5,055,711 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |                |                                                                                                 |              |        |              |           |                                  |                                     |
|-----------------|------------------|----------------|-------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.611<br>US1 | Utility -<br>ORG | 07/091,54<br>8 | FAST PNP<br>TRANSISTOR<br>TURN-OFF<br>CIRCUIT                                                   | Aug 31, 1987 | Issued | Jul 11, 1989 | 4,847,520 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.612<br>US1 | Utility -<br>ORG | 07/542,32<br>2 | LATERAL PNP<br>TURN-OFF DRIVE<br>CIRCUIT                                                        | Jun 22, 1990 | Issued | Jul 7, 1992  | 5,128,553 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.613<br>US1 | Utility -<br>ORG | 07/546,10<br>3 | ANALOG<br>MULTIPLIER IN<br>THE FEEDBACK<br>LOOP OF A<br>SWITCHING<br>REGULATOR                  | Jun 29, 1990 | Issued | Oct 8, 1991  | 5,055,767 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.614<br>US1 | Utility -<br>ORG | 07/673,47<br>5 | LEVEL SHIFT<br>CIRCUIT WITH<br>GAIN<br>ENHANCEMENT                                              | Mar 22, 1991 | Issued | Sep 15, 1992 | 5,148,118 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.615<br>US1 | Utility -<br>ORG | 07/673,46<br>6 | PRECISE<br>REFERENCE<br>VOLTAGE<br>GENERATOR<br>FOR<br>FEEDFORWARD<br>COMPENSATED<br>AMPLIFIERS | Mar 22, 1991 | Issued | Sep 15, 1992 | 5,148,119 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.616<br>US1 | Utility -<br>ORG | 07/722,94<br>1 | ALUMINUM<br>ALLOY/SILICON-<br>CHROMIUM<br>SANDWICH<br>SCHOTTKY<br>DIODE                         | Jun 28, 1991 | Issued | Oct 19, 1993 | 5,254,869 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                   |                |                                                                               |              |        |              |           |                                  |                                     |
|-----------------|-------------------|----------------|-------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.616<br>US3 | Utility -<br>DIV  | 08/088,92<br>8 | ALUMINUM<br>ALLOY/SILICON-<br>CHROMIUM<br>SANDWICH<br>SCHOTTKY<br>DIODE       | Jul 7, 1993  | Issued | Mar 22, 1994 | 5,296,406 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.618<br>US1 | Utility -<br>ORG  | 07/189,47<br>9 | NON-LINEAR<br>TEMPERATURE<br>GENERATOR<br>CIRCUIT                             | May 2, 1988  | Issued | Jun 27, 1989 | 4,843,302 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.619<br>US1 | Utility -<br>ORG  | 07/732,03<br>9 | DIFFERENTIAL<br>INPUT<br>AMPLIFIER<br>STAGE WITH<br>FREQUENCY<br>COMPENSATION | Jul 18, 1991 | Issued | Jan 26, 1993 | 5,182,526 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.619<br>US2 | Utility -<br>REIS | 08/355,08<br>0 | DIFFERENTIAL<br>INPUT<br>AMPLIFIER<br>STAGE WITH<br>FREQUENCY<br>COMPENSATION | Dec 12, 1994 | Issued | Jun 4, 1996  | RE35,261  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.620<br>US1 | Utility -<br>ORG  | 07/862,99<br>3 | MICROPOWER<br>GATE CHARGE<br>PUMP FOR<br>POWER<br>MOSFETS                     | Apr 6, 1992  | Issued | Nov 2, 1993  | 5,258,662 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.620<br>US2 | Utility -<br>CON  | 08/098,46<br>2 | MICROPOWER<br>GATE CHARGE<br>PUMP FOR<br>POWER<br>MOSFETS                     | Jul 27, 1993 | Issued | Jun 20, 1995 | 5,426,334 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |                |                                                                                         |              |        |              |           |                                  |                                     |
|-----------------|------------------|----------------|-----------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.621<br>US1 | Utility -<br>ORG | 07/893,52<br>3 | CIRCUIT FOR<br>DRIVING TWO<br>POWER<br>MOSFETS IN A<br>HALF-BRIDGE<br>CONFIGURATIO<br>N | Jun 4, 1992  | Issued | Nov 15, 1994 | 5,365,118 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.622<br>US1 | Utility -<br>CIP | 08/035,42<br>3 | CIRCUIT FOR<br>DRIVING TWO<br>POWER<br>MOSFETS IN A<br>HALF-BRIDGE<br>CONFIGURATIO<br>N | Mar 22, 1993 | Issued | Apr 18, 1995 | 5,408,150 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.623<br>US1 | Utility -<br>ORG | 07/785,48<br>3 | CONTROL<br>CIRCUIT FOR<br>LOW DROPOUT<br>REGULATOR                                      | Oct 31, 1991 | Issued | Dec 28, 1993 | 5,274,323 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.623<br>US2 | Utility -<br>DIV | 08/098,46<br>1 | FREQUENCY<br>COMPENSATION<br>CIRCUIT FOR<br>LOW DROPOUT<br>REGULATORS                   | Jul 27, 1993 | Issued | Aug 2, 1994  | 5,334,928 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.623<br>US3 | Utility -<br>CON | 08/241,50<br>5 | ERROR SIGNAL<br>GENERATION<br>CIRCUIT FOR<br>LOW DROPOUT<br>REGULATORS                  | May 12, 1994 | Issued | Jan 16, 1996 | 5,485,109 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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|-----------------|-------------------|------------|---------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.624<br>US1 | Utility -<br>ORG  | 07/786,718 | SWITCHING<br>REGULATOR<br>CIRCUIT USING<br>MAGNETIC FLUX-<br>SENSING                              | Nov 1, 1991  | Issued | Apr 19, 1994 | 5,305,192 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.624<br>US3 | Utility -<br>CON  | 08/266,092 | SWITCHING<br>REGULATOR<br>CIRCUIT USING<br>MAGNETIC FLUX-<br>SENSING                              | Jun 27, 1994 | Issued | Aug 1, 1995  | 5,438,499 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.625<br>US1 | Utility -<br>ORG  | 07/914,205 | LINEAR-PHASE<br>FILTER HAVING<br>HIGH GAIN<br>SELECTIVITY                                         | Jul 14, 1992 | Issued | Aug 8, 1995  | 5,440,270 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.626<br>US1 | Utility -<br>ORG  | 08/020,619 | METHOD AND<br>CIRCUIT FOR<br>INCREASING THE<br>OUTPUT<br>IMPEDANCE OF<br>AN INACTIVE<br>AMPLIFIER | Feb 19, 1993 | Issued | Jul 5, 1994  | 5,327,095 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.627<br>US1 | Utility -<br>ORG  | 07/314,378 | SCHOTTKY<br>ENHANCED<br>CMOS OUTPUT<br>CIRCUIT                                                    | Feb 23, 1989 | Issued | May 14, 1991 | 5,015,889 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.627<br>US2 | Utility -<br>REIS | 08/061,628 | SCHOTTKY<br>ENHANCED<br>CMOS OUTPUT<br>CIRCUIT                                                    | May 13, 1993 | Issued | Apr 30, 1996 | RE35,221  | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.628<br>US1 | Utility -<br>ORG  | 08/175,991 | ELECTROSTATIC<br>DISCHARGE<br>CIRCUIT                                                             | Dec 30, 1993 | Issued | Jan 16, 1996 | 5,485,024 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |                |                                                                                                                                     |              |        |              |           |                                  |                                     |
|-----------------|------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.629<br>US1 | Utility -<br>CON | 08/488,04<br>2 | TURN-OFF<br>CIRCUITRY FOR<br>A HIGH-SPEED<br>SWITCHING<br>REGULATOR<br>DRIVE CIRCUIT                                                | Jun 7, 1995  | Issued | Aug 12, 1997 | 5,656,965 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.630<br>US1 | Utility -<br>CON | 08/939,31<br>0 | SYNCHRONIZATI<br>ON AND<br>SHUTDOWN<br>CIRCUITS AND<br>METHODS IN<br>HIGH-SPEED<br>SWITCHING<br>REGULATOR<br>DRIVE CIRCUITS         | Sep 29, 1997 | Issued | Sep 29, 1998 | 5,815,015 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.630<br>US2 | Utility -<br>CON | 09/153,11<br>1 | HIGH -SPEED<br>SWITCHING<br>REGULATOR<br>DRIVE CIRCUIT                                                                              | Sep 15, 1998 | Issued | Aug 29, 2000 | 6,111,439 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.630<br>US3 | Utility -<br>CON | 09/153,10<br>8 | HIGH-SPEED<br>SWITCHING<br>REGULATOR<br>DRIVE CIRCUIT                                                                               | Sep 15, 1998 | Issued | Oct 10, 2000 | 6,130,575 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.631<br>US1 | Utility -<br>CON | 08/488,07<br>1 | CIRCUITS AND<br>METHODS FOR<br>INCREASING<br>SWITCH TURN-<br>OFF SPEED IN<br>HIGH-SPEED<br>SWITCHING<br>REGULATOR<br>DRIVE CIRCUITS | Jun 7, 1995  | Issued | Sep 16, 1997 | 5,668,493 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |



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|-----------------|------------------|----------------|-------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.632<br>US1 | Utility -<br>ORG | 08/414,62<br>2 | OPERATIONAL<br>AMPLIFIER WITH<br>JFET INPUTS<br>HAVING LOW<br>INPUT BIAS<br>CURRENT AND<br>METHODS FOR<br>USING SAME    | Mar 31, 1995 | Issued | Jul 16, 1996 | 5,537,078 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.633<br>US1 | Utility -<br>ORG | 08/346,39<br>5 | CURRENT<br>MIRROR<br>CIRCUITS AND<br>METHODS WITH<br>GUARANTEED<br>OFF STATE AND<br>AMPLIFIER<br>CIRCUITS USING<br>SAME | Nov 29, 1994 | Issued | May 14, 1996 | 5,517,143 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.633<br>US2 | Utility -<br>DIV | 08/479,00<br>9 | CURRENT<br>MIRROR<br>CIRCUITS AND<br>METHODS WITH<br>GUARANTEED<br>OFF STATE AND<br>AMPLIFIER<br>CIRCUITS USING<br>SAME | Jun 7, 1995  | Issued | May 6, 1997  | 5,627,486 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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|-----------------|------------------|------------|-------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.634<br>US1 | Utility -<br>ORG | 08/322,430 | ANALOG-TO-DIGITAL<br>CONVERSION<br>USING<br>COMPARATOR<br>COUPLED<br>CAPACITOR<br>DIGITAL-TO-ANALOG<br>CONVERTERS | Oct 13, 1994 | Issued    | Dec 3, 1996  | 5,581,252 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.635<br>US1 | Utility -<br>ORG | 08/215,898 | SYNCHRONOUSLY<br>RECTIFIED<br>BUCK-FLYBACK<br>DC TO DC<br>POWER<br>CONVERTER                                      | Mar 22, 1994 | Issued    | Sep 3, 1996  | 5,552,695 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.635<br>US2 | Utility -<br>CON | 08/619,816 | SYNCHRONOUSLY<br>RECTIFIED<br>BUCK-FLYBACK<br>DC TO DC<br>POWER<br>CONVERTER                                      | Mar 15, 1996 | Abandoned |              |           | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.636<br>US1 | Utility -<br>ORG | 08/480,696 | METHOD AND<br>CIRCUIT FOR<br>TRIMMING AN<br>OPERATIONAL<br>AMPLIFIER<br>HAVING DUAL<br>INPUT STAGES               | Jun 7, 1995  | Issued    | Mar 11, 1997 | 5,610,557 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

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| 5867.637<br>US3 | Utility -<br>CON | 08/010,47<br>7 | SOFTWARE<br>CONTROLLED<br>POWER<br>SHUTDOWN IN<br>AN INTEGRATED<br>CIRCUIT                                         | Jan 28, 1993 | Issued | Feb 15, 1994 | 5,287,525 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.638<br>US1 | Utility -<br>ORG | 08/494,23<br>7 | AC COUPLING<br>LOOPS FOR<br>CURRENT-TO-<br>VOLTAGE<br>TRANSIMPEDAN<br>CE AMPLIFIERS<br>AND METHOD<br>OF USING SAME | Jun 23, 1995 | Issued | Feb 25, 1997 | 5,606,277 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.639<br>US1 | Utility -<br>ORG | 08/486,86<br>2 | ANALOG-TO-<br>DIGITAL<br>CONVERTER                                                                                 | Jun 7, 1995  | Issued | Feb 3, 1998  | 5,714,955 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |            |                                                                                                                                                                                                      |              |        |              |           |                               |                               |
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| 5867.640<br>US1 | Utility -<br>ORG | 08/534,336 | SELF-CONFIGURING INTERFACE HAVING A PROTOCOL IDENTIFYING CIRCUITRY FOR MONITORING AT LEAST ONE TIME VARYING SIGNAL AND CONFIGURED THE INTERFACE TO USE THE SAME PROTOCOL CORRESPONDING TO THE SIGNAL | Sep 27, 1995 | Issued | Mar 14, 2000 | 6,038,400 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.642<br>US1 | Utility -<br>ORG | 08/477,455 | MULTIPLE OUTPUT REGULATOR WITH TIME SEQUENCING                                                                                                                                                       | Jun 7, 1995  | Issued | Apr 1, 1997  | 5,617,015 | Linear Technology Holding LLC | Linear Technology Corporation |
| 5867.643<br>US1 | Utility -<br>ORG | 08/628,802 | BATTERY CHARGING CIRCUITRY HAVING SUPPLY CURRENT REGULATION                                                                                                                                          | Apr 5, 1996  | Issued | Mar 3, 1998  | 5,723,970 | Linear Technology Holding LLC | Linear Technology Corporation |

|                 |                  |            |                                                                                                                                |              |        |              |           |                                  |                                     |
|-----------------|------------------|------------|--------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.644<br>US1 | Utility -<br>ORG | 08/592,976 | LOW QUIESCENT<br>POWER, HIGH<br>OUTPUT POWER<br>RAIL-TO RAIL<br>AMPLIFIER<br>OUTPUT STAGES<br>AND METHODS<br>FOR USING<br>SAME | Jan 29, 1996 | Issued | Oct 20, 1998 | 5,825,228 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.646<br>US1 | Utility -<br>ORG | 08/970,994 | ADAPTIVE<br>THRESHOLD<br>CIRCUIT FOR<br>COMPARATORS                                                                            | Nov 14, 1997 | Issued | Dec 26, 2000 | 6,166,566 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.647<br>US1 | Utility -<br>ORG | 08/647,361 | CIRCUITS AND<br>METHODS FOR<br>COMPENSATING<br>NON-LINEAR<br>CAPACITANCES<br>TO MINIMIZE<br>HARMONIC<br>DISTORTION             | May 9, 1996  | Issued | Jun 9, 1998  | 5,763,924 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.648<br>US1 | Utility -<br>ORG | 08/717,774 | DUAL<br>RESOLUTION<br>CIRCUITRY FOR<br>AN ANALOG-TO-<br>DIGITAL<br>CONVERTER                                                   | Sep 24, 1996 | Issued | Jun 9, 1998  | 5,764,175 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.649<br>US1 | Utility -<br>ORG | 08/910,482 | INTERPOLATION<br>CIRCUIT FOR<br>DIGITAL-TO-<br>ANALOG<br>CONVERTER                                                             | Jul 25, 1997 | Issued | Jan 12, 1999 | 5,859,606 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |                |                                                                                                                           |              |        |              |           |                                  |                                     |
|-----------------|------------------|----------------|---------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.651<br>US1 | Utility -<br>ORG | 08/868,31<br>1 | MIXED-MODE<br>MULTI-<br>PROTOCOL<br>SERIAL<br>INTERFACE<br>DRIVER                                                         | Jun 3, 1997  | Issued | Dec 21, 1999 | 6,005,414 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.652<br>US1 | Utility -<br>ORG | 08/873,54<br>5 | SELECTABLE<br>MULTI-<br>PROTOCOL<br>CABLE<br>TERMINATION                                                                  | Jun 12, 1997 | Issued | Jan 25, 2000 | 6,018,549 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.653<br>US1 | Utility -<br>ORG | 08/744,38<br>8 | SWITCHING<br>REGULATORS<br>HAVING A<br>SYNCHRONIZABLE<br>OSCILLATOR<br>FREQUENCY<br>WITH<br>CONSTANT<br>RAMP<br>AMPLITUDE | Nov 7, 1996  | Issued | Jul 27, 1999 | 5,929,620 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.654<br>US1 | Utility -<br>ORG | 09/060,56<br>1 | CIRCUITS AND<br>METHODS FOR<br>CANCELING<br>HARMONIC<br>DISTORTION IN<br>SAMPLE AND<br>HOLD CIRCUITS                      | Apr 15, 1998 | Issued | Jul 4, 2000  | 6,084,440 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |

|                 |                  |                |                                                                                                        |              |        |              |           |                                  |                                     |
|-----------------|------------------|----------------|--------------------------------------------------------------------------------------------------------|--------------|--------|--------------|-----------|----------------------------------|-------------------------------------|
| 5867.655<br>US1 | Utility -<br>ORG | 08/974,29<br>2 | INDUCTORLESS<br>STEP-UP AND<br>STEP-DOWN<br>CONVERTER<br>WITH INRUSH<br>CURRENT<br>LIMITING            | Nov 19, 1997 | Issued | Oct 26, 1999 | 5,973,944 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |
| 5867.656<br>US1 | Utility -<br>ORG | 08/942,45<br>1 | METHOD AND<br>APPARATUS FOR<br>ISOLATED<br>FLYBACK<br>REGULATOR<br>CONTROL AND<br>LOAD<br>COMPENSATION | Oct 1, 1997  | Issued | Nov 24, 1998 | 5,841,643 | Linear Technology<br>Holding LLC | Linear<br>Technology<br>Corporation |