

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6106526

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|------------------------------------|---------------------------------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>            | NEW ASSIGNMENT                              |                       |
| <b>NATURE OF CONVEYANCE:</b>       | ASSIGNMENT                                  |                       |
| <b>CONVEYING PARTY DATA</b>        |                                             |                       |
| <b>Name</b>                        |                                             | <b>Execution Date</b> |
| PANTECH INC.                       |                                             | 05/06/2020            |
| <b>RECEIVING PARTY DATA</b>        |                                             |                       |
| <b>Name:</b>                       | PANTECH CORPORATION                         |                       |
| <b>Street Address:</b>             | 8 YANGJAECHONRO-21GIL, SUITE 402, SEOCHO-GU |                       |
| <b>City:</b>                       | SEOUL                                       |                       |
| <b>State/Country:</b>              | KOREA, REPUBLIC OF                          |                       |
| <b>Postal Code:</b>                | 06748                                       |                       |
| <b>PROPERTY NUMBERS Total: 208</b> |                                             |                       |
| <b>Property Type</b>               | <b>Number</b>                               |                       |
| Patent Number:                     | 8811268                                     |                       |
| Patent Number:                     | 8995372                                     |                       |
| Patent Number:                     | 9246841                                     |                       |
| Patent Number:                     | 9554341                                     |                       |
| Patent Number:                     | 9961648                                     |                       |
| Patent Number:                     | 10299224                                    |                       |
| Patent Number:                     | 10074345                                    |                       |
| Patent Number:                     | 9491210                                     |                       |
| Patent Number:                     | 9152479                                     |                       |
| Patent Number:                     | 9101047                                     |                       |
| Patent Number:                     | 9763283                                     |                       |
| Patent Number:                     | 9930720                                     |                       |
| Patent Number:                     | 9236993                                     |                       |
| Patent Number:                     | 8665982                                     |                       |
| Patent Number:                     | 8908490                                     |                       |
| Patent Number:                     | 8867655                                     |                       |
| Patent Number:                     | 8861634                                     |                       |
| Patent Number:                     | 8953553                                     |                       |
| Patent Number:                     | 8855002                                     |                       |
| Patent Number:                     | 8892122                                     |                       |

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**PATENT**  
**REEL: 052662 FRAME: 0609**

| Property Type  | Number   |
|----------------|----------|
| Patent Number: | 10050754 |
| Patent Number: | 10090903 |
| Patent Number: | 9042881  |
| Patent Number: | 9398482  |
| Patent Number: | 8837340  |
| Patent Number: | 8965446  |
| Patent Number: | 8284975  |
| Patent Number: | 7738669  |
| Patent Number: | 6928116  |
| Patent Number: | 6973257  |
| Patent Number: | 7088772  |
| Patent Number: | 7787745  |
| Patent Number: | 8130829  |
| Patent Number: | 7511859  |
| Patent Number: | 8587710  |
| Patent Number: | 9128555  |
| Patent Number: | 8532432  |
| Patent Number: | 9197882  |
| Patent Number: | 8887196  |
| Patent Number: | 7804967  |
| Patent Number: | 8213985  |
| Patent Number: | 9407223  |
| Patent Number: | 10394516 |
| Patent Number: | 7298292  |
| Patent Number: | 7142845  |
| Patent Number: | 7123904  |
| Patent Number: | 8068856  |
| Patent Number: | 7647058  |
| Patent Number: | 7356199  |
| Patent Number: | 7099987  |
| Patent Number: | 7574130  |
| Patent Number: | 7746390  |
| Patent Number: | 7817195  |
| Patent Number: | 8875018  |
| Patent Number: | 8856510  |
| Patent Number: | 9112874  |
| Patent Number: | 8699706  |
| Patent Number: | 8327145  |

**PATENT**  
**REEL: 052662 FRAME: 0610**

| Property Type  | Number  |
|----------------|---------|
| Patent Number: | 7302277 |
| Patent Number: | 8533450 |
| Patent Number: | 8447964 |
| Patent Number: | 7644260 |
| Patent Number: | 8627267 |
| Patent Number: | 7532603 |
| Patent Number: | 8019273 |
| Patent Number: | 7583929 |
| Patent Number: | 7768578 |
| Patent Number: | 7817751 |
| Patent Number: | 7831248 |
| Patent Number: | 7873956 |
| Patent Number: | 7870391 |
| Patent Number: | 7539908 |
| Patent Number: | 7721000 |
| Patent Number: | 7761679 |
| Patent Number: | 8471887 |
| Patent Number: | 6937653 |
| Patent Number: | 8620000 |
| Patent Number: | 8374171 |
| Patent Number: | 8248450 |
| Patent Number: | 8793622 |
| Patent Number: | 6914891 |
| Patent Number: | 7418257 |
| Patent Number: | 9015826 |
| Patent Number: | 8594645 |
| Patent Number: | 7693799 |
| Patent Number: | 8453055 |
| Patent Number: | 8599153 |
| Patent Number: | 8893052 |
| Patent Number: | 8601599 |
| Patent Number: | 8626125 |
| Patent Number: | 7561693 |
| Patent Number: | 7630183 |
| Patent Number: | 8832426 |
| Patent Number: | 8891502 |
| Patent Number: | 8955056 |
| Patent Number: | 8886160 |

**PATENT**  
**REEL: 052662 FRAME: 0611**

| Property Type  | Number  |
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| Patent Number: | 7139588 |
| Patent Number: | 7426402 |
| Patent Number: | 8797921 |
| Patent Number: | 7920574 |
| Patent Number: | 8031597 |
| Patent Number: | 7779324 |
| Patent Number: | 8780734 |
| Patent Number: | 8929811 |
| Patent Number: | 8407279 |
| Patent Number: | 8953835 |
| Patent Number: | 7599718 |
| Patent Number: | 8320534 |
| Patent Number: | 6970452 |
| Patent Number: | 7796553 |
| Patent Number: | 7352719 |
| Patent Number: | 7697597 |
| Patent Number: | 8620377 |
| Patent Number: | 7912496 |
| Patent Number: | 7542724 |
| Patent Number: | 8750872 |
| Patent Number: | 7107082 |
| Patent Number: | 7496337 |
| Patent Number: | 8528051 |
| Patent Number: | 7869489 |
| Patent Number: | 7085331 |
| Patent Number: | 8559572 |
| Patent Number: | 8588190 |
| Patent Number: | 8391274 |
| Patent Number: | 7609965 |
| Patent Number: | 8472953 |
| Patent Number: | 7424297 |
| Patent Number: | 7873360 |
| Patent Number: | 7809839 |
| Patent Number: | 8139480 |
| Patent Number: | 7471967 |
| Patent Number: | 8346322 |
| Patent Number: | 6975724 |
| Patent Number: | 8803016 |

**PATENT**  
**REEL: 052662 FRAME: 0612**

| Property Type  | Number   |
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| Patent Number: | 7833029  |
| Patent Number: | 8514558  |
| Patent Number: | 7567830  |
| Patent Number: | 7577466  |
| Patent Number: | 7679808  |
| Patent Number: | 8611084  |
| Patent Number: | 8672692  |
| Patent Number: | 9042095  |
| Patent Number: | 9395760  |
| Patent Number: | 9705553  |
| Patent Number: | 8380327  |
| Patent Number: | 8922531  |
| Patent Number: | 6995717  |
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| Patent Number: | 7626553  |
| Patent Number: | 8581786  |
| Patent Number: | 6930671  |
| Patent Number: | 7466995  |
| Patent Number: | 8754608  |
| Patent Number: | 7702118  |
| Patent Number: | 7657046  |
| Patent Number: | 7835699  |
| Patent Number: | 7505737  |
| Patent Number: | 7733206  |
| Patent Number: | 10250398 |
| Patent Number: | 9426039  |
| Patent Number: | 9445384  |
| Patent Number: | 9774361  |
| Patent Number: | 9754557  |
| Patent Number: | 9756436  |
| Patent Number: | 8855481  |
| Patent Number: | 9324176  |
| Patent Number: | 9271323  |
| Patent Number: | 9112966  |
| Patent Number: | 9148810  |
| Patent Number: | 9686160  |
| Patent Number: | 10140014 |
| Patent Number: | 9448652  |

**PATENT**  
**REEL: 052662 FRAME: 0613**

| Property Type       | Number   |
|---------------------|----------|
| Patent Number:      | 10459628 |
| Patent Number:      | 9563356  |
| Patent Number:      | 9535571  |
| Patent Number:      | 9298348  |
| Patent Number:      | 8711179  |
| Patent Number:      | 10055037 |
| Patent Number:      | 9063654  |
| Patent Number:      | 9483492  |
| Patent Number:      | 10403964 |
| Patent Number:      | 9065892  |
| Patent Number:      | 9201459  |
| Patent Number:      | 7706331  |
| Patent Number:      | 8098634  |
| Patent Number:      | 8699618  |
| Patent Number:      | 6778606  |
| Patent Number:      | 6792163  |
| Patent Number:      | 6662153  |
| Patent Number:      | 6741960  |
| Patent Number:      | 6892220  |
| Patent Number:      | 7020495  |
| Patent Number:      | 8300600  |
| Patent Number:      | 6810071  |
| Patent Number:      | 6692275  |
| Patent Number:      | 6788028  |
| Patent Number:      | 6549761  |
| Patent Number:      | 6393280  |
| Patent Number:      | 6993329  |
| Patent Number:      | 7020194  |
| Patent Number:      | 6754667  |
| Application Number: | 15935626 |
| Application Number: | 14890409 |
| Application Number: | 14473451 |
| Application Number: | 14300525 |
| Application Number: | 14245884 |
| Application Number: | 16135571 |
| Application Number: | 13594023 |
| CORRESPONDENCE DATA |          |

**PATENT**  
**REEL: 052662 FRAME: 0614**

**Fax Number:** (703)643-9789

***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:** 5712064847

**Email:** patent@capitoliplaw.com

**Correspondent Name:** CAPITOL IP LAW GROUP, PLLC

**Address Line 1:** 1918 18TH ST., UNIT 4, NW

**Address Line 4:** WASHINGTON, D.C. 20009

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| <b>ATTORNEY DOCKET NUMBER:</b> | PA02PANTECHINCTOCORP                                       |
| <b>NAME OF SUBMITTER:</b>      | YEASUN YOON                                                |
| <b>SIGNATURE:</b>              | /yoon/                                                     |
| <b>DATE SIGNED:</b>            | 05/14/2020                                                 |
|                                | This document serves as an Oath/Declaration (37 CFR 1.63). |

**Total Attachments: 23**

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**PATENT  
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### CONFIRMATORY ASSIGNMENT OF PATENT RIGHTS

This CONFIRMATORY ASSIGNMENT OF PATENT RIGHTS (this "Assignment") is made this 6 day of May 2020, by Pantech Inc. (Registration No. 110111-5868736), a Korean company ("Assignor"), in favor of Pantech Corporation. (Registration No. 110111-7302063), a Korean company ("Assignee").

WHEREAS, Assignor and Assignee are party to that certain Patent Sale and Purchase Agreement of even date herewith (as in effect from time to time, the "Intellectual Property Sale and Purchase Agreement"); capitalized terms used but not otherwise defined in this Assignment shall have the respective meaning assigned thereto in the Patent Sale and Purchase Agreement; and

WHEREAS, pursuant to the Patent Sale and Purchase Agreement, Assignor has agreed to sell, convey, transfer, assign and deliver to Assignee all right, title and interest, including, without limitation, Patent Rights, in and to the patents, provisional patent applications, and patent applications listed on listed on Schedule A hereto (collectively, the "Patents").

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor hereby sells, conveys, transfers, and assigns to Assignee, its successors, legal representatives and assigns all right, title and interest in the United States and throughout the world in and to:

The Patents and any and all letters patent that are or may be granted thereon, and any legal equivalent and counterpart thereof that may be granted in any country or countries foreign to the United States, in each case including without limitation any extensions, substitutes, continuations, continuations-in-part, divisions, reissues, reexaminations, and renewals thereof, or other equivalents thereof, and further, all rights and privileges pertaining to the Patents and any and all letters patent that are or may be granted thereon, and any legal equivalent thereof that may be granted in any country or countries foreign to the United States as well as all inventions, invention disclosures, and discoveries described in any of the foregoing and including, without limitation, the right, if any, to petition, sue or otherwise seek and recover damages, profits and any other remedy (monetary, injunctive, declaratory or other relief or remedy of any kind) in the United States and anywhere throughout the world for any past, present and future infringement thereof, conversion or misappropriation of, or other injury, offense, violation, breach of duty or wrong relating to, any of the Patents, or any license, agreement, contract or other matter relating thereto.

Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States of America and the appropriate officers of all other jurisdictions in which the Patents are or may be registered or in which applications included among the Patents are pending, to record the title of Assignee, its successors, legal representatives and assigns, as owner of all right, title and interest in and to the Patents, and to issue to Assignee, its successors, legal representatives and assigns, all letters patent and any legal equivalent thereof that may be granted in any country or countries foreign to the United States and recordings of patent rights resulting from any application included among the Patents, according to this instrument.

Except to the extent that federal law preempts state law with respect to the matters covered hereby, this Assignment shall be governed by and construed in accordance with the laws of the State of Delaware, without giving effect to any of the principles of conflicts of laws thereof that would result in the application of the laws of another jurisdiction to this Assignment.

This Assignment will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon Assignor, its successors, assigns, and other legal representatives.

**PATENT**  
**REEL: 052662 FRAME: 0616**

Assignor has the full power and authority, and has obtained all Third Party consents, approvals and/or other authorizations required to enter into this Assignment and to carry out its obligations hereunder.

If Assignee is unable for any reason to secure Assignor's or its affiliates or their respective successors' or assigns' signature to any document it is entitled to under this Assignment, Assignor and its affiliates hereby irrevocably designate and appoint Assignee, and Assignee's duly authorized officers, agents and representatives, as its agents and attorneys-in-fact, coupled with an interest, with full power of substitution to act for and on the behalf and instead of Assignor, to execute and file any such document or documents and to do all other lawfully permitted acts to further the purposes of this Assignment with the same legal force and effect as if executed by Assignor.

IN WITNESS WHEREOF, Assignor has caused this Assignment to be executed by its duly authorized officer, as of the date first written above.

ASSIGNOR:

Pantech Inc.

By: 

Name: KIM BYONG JIH

Title: C. E. O

**PATENT**  
**REEL: 052662 FRAME: 0617**

Schedule A

| Country | Application #    | Application Date | Issued #         | Issued Date |
|---------|------------------|------------------|------------------|-------------|
| US      | 13/518326        | 2010-12-10       | 8811268          | 2014-08-19  |
| US      | 13/638507        | 2011-03-29       | 8995372          | 2015-03-31  |
| US      | 14/356143        | 2012-10-24       | 9246841          | 2016-01-26  |
| US      | 14/374604        | 2013-01-17       | 9554341          | 2017-01-24  |
| US      | 14/782468        | 2014-03-26       | 9961648          | 2018-05-01  |
| KR      | 2013-0037322     | 2013-04-05       | 2037388          | 2019-10-22  |
| US      | 15/947184        | 2018-04-06       | 10299224         | 2019-05-21  |
| CN      | 03160040.9       | 2003-09-23       | ZL03160040.9     | 2005-10-05  |
| CN      | 200310121584.X   | 2003-12-29       | ZL200310121584.X | 2008-01-16  |
| KR      | 2003-0075624     | 2003-10-28       | 0604531          | 2006-07-18  |
| CN      | 200410011736.5   | 2004-09-24       | ZL200410011736.5 | 2007-10-03  |
| CN      | 200410028325.7   | 2004-01-21       | ZL200410028325.7 | 2007-07-04  |
| HK      | 05101317.9       | 2005-02-17       | 1068986          | 2007-04-07  |
| CN      | 200410100339.5   | 2004-12-06       | ZL200410100339.5 | 2009-09-16  |
| JP      | 2013-029139      | 2013-02-18       | 5943856          | 2006-03-28  |
| US      | 13/741539        | 2013-01-15       | 10074345         | 2018-09-11  |
| US      | 14/074250        | 2013-11-07       | 9491210          | 2016-11-08  |
| US      | 14/134548        | 2013-12-19       | 9152479          | 2015-10-06  |
| US      | 14/015208        | 2013-08-30       | 9101047          | 2015-08-04  |
| MX      | MX/A/2007/004717 | 2007-04-19       | 294022           | 2007-08-21  |
| US      | 14/890403        | 2014-05-09       | NCA              |             |
| KR      | 2013-0037776     | 2013-04-05       | 2037389          | 2019-10-22  |
| US      | 14/782534        | 2015-10-05       | 9763283          | 2017-09-12  |
| US      | 14/890407        | 2014-05-09       | 9930720          | 2018-03-27  |
| KR      | 2013-0053408     | 2013-05-10       | 2059042          | 2019-12-18  |
| US      | 15/935626        | 2018-03-26       |                  |             |
| US      | 14/890409        | 2014-05-09       |                  |             |
| ID      | P-201508365      | 2015-12-10       | IDP000050078     | 2018-03-12  |
| KR      | 20140037185      | 2014-03-28       |                  |             |
| KR      | 20130053407      | 2013-05-10       |                  |             |
| US      | 14/234086        | 2012-07-25       | 9236993          | 2016-01-12  |
| US      | 13/579755        | 2011-02-17       | 8665982          | 2014-03-04  |
| US      | 13/639451        | 2011-04-04       | 8908490          | 2014-12-09  |
| US      | 13/824177        | 2011-09-15       | 8867655          | 2014-10-21  |
| US      | 13/639473        | 2011-03-31       | 8861634          | 2014-10-14  |
| KR      | 2010-0013045     | 2010-02-11       | 1652248          | 2016-08-24  |
| US      | 13/577904        | 2011-01-28       | 8953553          | 2015-02-10  |

**PATENT**  
**REEL: 052662 FRAME: 0618**

|    |                |            |                  |            |
|----|----------------|------------|------------------|------------|
| US | 13/505637      | 2010-11-02 | 8855002          | 2014-10-07 |
| KR | 2009-0022358   | 2009-03-16 | 1055573          | 2011-08-02 |
| KR | 2009-0047468   | 2009-05-29 | 1055446          | 2011-08-02 |
| US | 13/375194      | 2010-05-28 | 8892122          | 2014-11-18 |
| KR | 2012-0123583   | 2012-11-02 | 1987232          | 2019-06-03 |
| US | 14/440581      | 2013-10-17 | 10050754         | 2018-08-14 |
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| DE | 12777750.6     | 2013-10-02 | 2702798          | 2019-09-18 |
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| KR | 2012-0074795   | 2012-07-09 | 1971494          | 2019-04-17 |
| JP | 2012-528746    | 2010-09-09 | 5599464          | 2014-08-22 |
| US | 13/522265      | 2011-01-10 | 8965446          | 2015-02-24 |
| KR | 20130033022    | 2013-03-27 |                  |            |
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| US | 11/258487      | 2005-10-25 | 7738669          | 2010-06-15 |
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| KR | 2003-0031853   | 2003-05-20 | 508975           | 2005-08-09 |
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| KR | 2005-0090452   | 2005-09-28 | 718351           | 2007-05-08 |
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| US | 12/853798      | 2010-08-10 | 8587710          | 2013-11-19 |
| KR | 2009-0090650   | 2009-09-24 | 1038323          | 2011-05-25 |

**PATENT**  
**REEL: 052662 FRAME: 0619**

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|----|----------------|------------|------------------|------------|
| CN | 201010284923.6 | 2010-09-17 | ZL201010284923.6 | 2014-04-23 |
| US | 12/861481      | 2010-08-23 | 9128555          | 2015-09-08 |
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| US | 12/877853      | 2010-09-08 | 8532432          | 2013-09-10 |
| US | 14/017436      | 2013-09-04 | 9197882          | 2015-11-24 |
| KR | 2010-0008108   | 2010-01-28 | 1082545          | 2011-11-04 |
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| KR | 2011-0005052   | 2011-01-18 | 1323460          | 2013-10-23 |
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| JP | 2011-210830    | 2011-09-27 | 5572140          | 2014-07-04 |
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| KR | 2010-0116283   | 2010-11-22 | 1295712          | 2013-08-06 |
| KR | 2010-0136580   | 2010-12-28 | 1324336          | 2013-10-25 |
| KR | 2011-0008457   | 2011-01-27 | 1330808          | 2013-11-12 |
| KR | 2011-0008073   | 2011-01-27 | 1338700          | 2013-12-02 |
| KR | 2011-0008074   | 2011-01-27 | 1292463          | 2013-07-26 |
| KR | 2011-0008075   | 2011-01-27 | 1329935          | 2013-11-08 |
| KR | 2010-0127191   | 2010-12-13 | 1269773          | 2013-05-24 |
| KR | 2011-0017150   | 2011-02-25 | 1328249          | 2013-11-05 |
| KR | 2011-0055515   | 2011-06-09 | 1308184          | 2013-09-06 |
| KR | 2011-0084792   | 2011-08-24 | 1343609          | 2013-12-13 |
| KR | 2011-0087985   | 2011-08-31 | 1330807          | 2013-11-12 |
| JP | 2011-139514    | 2011-06-23 | 5260705          | 2013-05-02 |
| KR | 2010-0063053   | 2010-06-30 | 1295714          | 2013-08-06 |
| KR | 2010-0071623   | 2010-07-23 | 1363559          | 2014-02-10 |
| KR | 2010-0073053   | 2010-07-28 | 1295710          | 2013-08-06 |
| KR | 2010-0066564   | 2010-07-09 | 1325757          | 2013-10-30 |
| KR | 2010-0077897   | 2010-08-12 | 1347518          | 2013-12-26 |
| KR | 2010-0077896   | 2010-08-12 | 1329882          | 2013-11-08 |
| JP | 2011-178323    | 2011-08-17 | 5284428          | 2013-06-07 |
| KR | 2010-0079906   | 2010-08-18 | 1299910          | 2013-08-19 |

**PATENT**  
**REEL: 052662 FRAME: 0620**

|    |                |            |                  |            |
|----|----------------|------------|------------------|------------|
| KR | 2010-0080780   | 2010-08-20 | 1429250          | 2014-08-05 |
| KR | 2010-0080781   | 2010-08-20 | 1315399          | 2013-09-30 |
| KR | 2010-0072513   | 2010-07-27 | 1397712          | 2014-05-14 |
| JP | 2011-183431    | 2011-08-25 | 5236055          | 2013-04-05 |
| KR | 2010-0082696   | 2010-08-25 | 1330811          | 2013-11-12 |
| KR | 2010-0086704   | 2010-09-03 | 1293776          | 2013-07-31 |
| JP | 2011-227994    | 2011-10-17 | 5485244          | 2014-02-28 |
| KR | 2010-0062788   | 2010-06-30 | 1372722          | 2014-03-04 |
| KR | 2010-0079901   | 2010-08-18 | 1330805          | 2013-11-12 |
| KR | 2010-0100007   | 2010-10-13 | 1286866          | 2013-07-10 |
| KR | 2010-0095576   | 2010-09-30 | 1306288          | 2013-09-03 |
| US | 11/375420      | 2006-03-13 | 7804967          | 2010-09-28 |
| KR | 2005-0028679   | 2005-04-06 | 598366           | 2006-06-30 |
| KR | 2011-0013257   | 2011-02-15 | 1295711          | 2013-08-06 |
| US | 11/601196      | 2006-11-16 | 8213985          | 2012-07-03 |
| KR | 2006-0011756   | 2006-02-07 | 654566           | 2006-11-29 |
| US | 14/039160      | 2013-09-27 | 9407223          | 2016-08-02 |
| US | 15/225314      | 2016-08-01 | 10394516         | 2019-08-27 |
| KR | 2012-0108865   | 2012-09-28 | 1407192          | 2014-06-05 |
| US | 11/492287      | 2006-07-24 | 7298292          | 2007-11-20 |
| KR | 2005-0067524   | 2005-07-25 | 755533           | 2007-08-29 |
| CN | 200610100101.1 | 2006-06-28 | ZL200610100101.1 | 2012-05-30 |
| US | 10/820273      | 2004-04-08 | 7142845          | 2006-11-28 |
| US | 10/817177      | 2004-04-04 | 7123904          | 2006-10-17 |
| US | 11/195748      | 2005-08-03 | 8068856          | 2011-11-29 |
| KR | 2004-0064762   | 2004-08-17 | 620687           | 2006-08-29 |
| CN | 200510090383.7 | 2005-08-16 | ZL200510090383.7 | 2008-12-17 |
| HK | 06109196.7     | 2006-08-18 | 1091353          | 2009-07-13 |
| US | 11/300758      | 2005-12-14 | 7647058          | 2010-01-12 |
| HK | 03107331.0     | 2003-10-14 | 1055055          | 2006-08-18 |
| CN | 02140902.1     | 2002-07-09 | ZL02140902.1     | 2006-04-05 |
| KR | 2009-0051375   | 2009-06-10 | 1320143          | 2013-10-14 |
| KR | 2010-0009795   | 2010-02-03 | 1103161          | 2011-12-29 |
| US | 11/020262      | 2004-12-27 | 7356199          | 2008-04-08 |
| US | 10/761588      | 2004-01-20 | 7099987          | 2006-08-29 |
| KR | 2003-0003894   | 2003-01-21 | 516296           | 2005-09-13 |
| KR | 2009-0084494   | 2009-09-08 | 1078057          | 2011-10-24 |
| GB | 10172479.7     | 2010-08-11 | 2306706          | 2013-08-21 |
| FR | 10172479.7     | 2010-08-11 | 2306706          | 2013-08-21 |
| DE | 10172479.7     | 2010-08-11 | 2306706          | 2013-08-21 |

**PATENT**  
**REEL: 052662 FRAME: 0621**

|    |                  |            |                  |            |
|----|------------------|------------|------------------|------------|
| NL | 10172479.7       | 2010-08-11 | 2306706          | 2013-08-21 |
| KR | 2009-0084571     | 2009-09-08 | 1356269          | 2014-01-21 |
| KR | 2010-0011923     | 2010-02-09 | 1105034          | 2012-01-04 |
| CN | 201110004238.8   | 2011-01-04 | ZL201110004238.8 | 2014-07-02 |
| US | 11/311047        | 2005-12-19 | 7574130          | 2009-08-11 |
| KR | 2004-0108855     | 2004-12-20 | 716816           | 2007-05-03 |
| US | 11/087603        | 2005-03-24 | 7746390          | 2010-06-29 |
| KR | 2004-0021040     | 2004-03-27 | 580094           | 2006-05-08 |
| US | 11/375266        | 2006-03-13 | 7817195          | 2010-10-19 |
| KR | 2011-0076727     | 2011-08-01 | 1147730          | 2012-05-14 |
| KR | 2009-0093472     | 2009-09-30 | 1115467          | 2012-02-06 |
| US | 12/938223        | 2010-11-02 | 8875018          | 2014-10-28 |
| KR | 2009-0106446     | 2009-11-05 | 1092591          | 2011-12-05 |
| KR | 2011-0009629     | 2011-01-31 | 1282361          | 2013-06-28 |
| KR | 2011-0089205     | 2011-09-02 | 1374384          | 2014-03-07 |
| KR | 2009-0064240     | 2009-07-14 | 1387270          | 2014-04-14 |
| CN | 201010174919.4   | 2010-05-07 | ZL201010174919.4 | 2016-08-10 |
| KR | 2009-0097840     | 2009-10-14 | 1092592          | 2011-12-05 |
| KR | 2012-0018141     | 2012-02-22 | 1357261          | 2014-01-23 |
| JP | 2009-002184      | 2009-01-08 | 5000669          | 2012-05-25 |
| US | 12/334825        | 2008-12-15 | 8856510          | 2014-10-07 |
| VN | 1-2008-03126     | 2008-12-23 | 14765            | 2015-11-02 |
| KR | 2008-0010232     | 2008-01-31 | 981419           | 2010-09-03 |
| KR | 2006-0100037     | 2006-10-13 | 1321587          | 2013-10-17 |
| CN | 200710182176.3   | 2007-08-21 | ZL200710182176.3 | 2013-02-27 |
| MX | MX/A/2007/010124 | 2012-11-12 | 305182           | 2013-08-13 |
| US | 11/841190        | 2007-08-20 | 9112874          | 2015-08-18 |
| JP | 2007-215135      | 2007-08-21 | 5101951          | 2012-10-05 |
| CN | 200710182159.X   | 2007-08-21 | ZL200710182159.X | 2016-03-02 |
| MX | MX/A/2007/010123 | 2007-08-20 | 284097           | 2011-02-16 |
| TW | 96130743         | 2007-08-20 | 1446205          | 2014-07-21 |
| VN | 1-2007-01677     | 2007-08-21 | 14157            | 2015-06-08 |
| GB | 07253313.6       | 2007-08-21 | 1892924          | 2014-04-09 |
| FR | 07253313.6       | 2007-08-21 | 1892924          | 2014-04-09 |
| DE | 07253313.6       | 2007-08-21 | 1892924          | 2014-04-09 |
| KR | 2006-0101531     | 2006-10-18 | 1325756          | 2013-10-30 |
| US | 13/673397        | 2012-11-09 | 8699706          | 2014-04-15 |
| US | 12/406350        | 2009-03-18 | 8327145          | 2012-12-04 |
| KR | 2008-0027891     | 2008-03-26 | 973576           | 2010-07-27 |
| CN | 200910132336.2   | 2009-03-25 | ZL200910132336.2 | 2013-03-27 |

**PATENT**  
**REEL: 052662 FRAME: 0622**

|    |                |            |                  |            |
|----|----------------|------------|------------------|------------|
| JP | 2009-040894    | 2009-02-24 | 4945717          | 2012-03-16 |
| US | 11/130147      | 2005-05-17 | 7302277          | 2007-11-27 |
| CN | 200510076608.3 | 2005-06-10 | ZL200510076608.3 | 2009-04-08 |
| HK | 06109197.6     | 2006-08-18 | 1087299          | 2009-12-18 |
| US | 12/631417      | 2009-12-04 | 8533450          | 2013-09-10 |
| US | 12/631264      | 2009-12-04 | 8447964          | 2013-05-21 |
| US | 11/258294      | 2005-10-25 | 7644260          | 2010-01-05 |
| CN | 200510114580.8 | 2005-10-26 | ZL200510114580.8 | 2009-05-13 |
| GB | 05021953.4     | 2005-10-07 | 1679599          | 2012-03-28 |
| FR | 05021953.4     | 2005-10-07 | 1679599          | 2012-03-28 |
| DE | 05021953.4     | 2005-10-07 | 1679599          | 2012-03-28 |
| US | 11/025987      | 2005-01-03 | 8627267          | 2014-01-07 |
| CN | 200410094251.7 | 2004-12-31 | ZL200410094251.7 | 2007-10-31 |
| HK | 06100826.4     | 2006-01-18 | 1080961          | 2007-10-31 |
| KR | 2004-0014609   | 2004-03-04 | 626533           | 2006-09-13 |
| US | 11/167316      | 2005-06-28 | 7532603          | 2009-05-12 |
| US | 12/510658      | 2009-07-28 | 8019273          | 2011-09-13 |
| US | 11/439407      | 2006-05-22 | 7583929          | 2009-09-01 |
| KR | 2005-0057708   | 2005-06-30 | 744210           | 2007-07-24 |
| CN | 200610110805.7 | 2006-06-30 | ZL200610110805.7 | 2010-11-24 |
| US | 11/394530      | 2006-03-30 | 7768578          | 2010-08-03 |
| US | 11/580384      | 2006-10-12 | 7817751          | 2010-10-19 |
| JP | 2006-235596    | 2006-08-31 | 4959257          | 2012-03-30 |
| KR | 2002-0078696   | 2002-12-11 | 447676           | 2004-08-30 |
| KR | 2010-0007839   | 2010-01-28 | 1114587          | 2012-02-02 |
| US | 11/250038      | 2005-10-13 | 7831248          | 2010-11-09 |
| KR | 2004-0082001   | 2004-10-14 | 645735           | 2006-11-06 |
| KR | 2011-0085008   | 2011-08-25 | 1389682          | 2014-04-21 |
| US | 10/948325      | 2004-09-24 | 7873956          | 2011-01-18 |
| KR | 2004-0057776   | 2004-07-23 | 693551           | 2007-03-05 |
| GB | 04022988.2     | 2003-10-06 | 1519268          | 2012-04-11 |
| FR | 04022988.2     | 2003-10-06 | 1519268          | 2012-04-11 |
| DE | 04022988.2     | 2003-10-06 | 602004037249.8   | 2012-04-11 |
| US | 11/298284      | 2005-12-09 | 7870391          | 2011-01-11 |
| CN | 200510131620.X | 2005-12-15 | ZL200510131620.X | 2012-07-18 |
| KR | 2004-0106554   | 2004-12-15 | 604585           | 2006-07-18 |
| US | 11/435418      | 2006-05-16 | 7539908          | 2009-05-26 |
| US | 11/489661      | 2006-07-17 | 7721000          | 2010-05-18 |
| KR | 2005-0064857   | 2005-07-18 | 747901           | 2007-08-02 |
| US | 11/295892      | 2005-12-06 | 7761679          | 2010-07-20 |

**PATENT**  
**REEL: 052662 FRAME: 0623**

|    |                |            |                  |            |
|----|----------------|------------|------------------|------------|
| KR | 2004-0102665   | 2004-12-07 | 588199           | 2006-06-01 |
| US | 12/510678      | 2009-07-28 | 8471887          | 2013-06-25 |
| KR | 2009-0021598   | 2009-03-13 | 1244045          | 2013-03-08 |
| US | 09/861359      | 2001-05-18 | 6937653          | 2005-08-30 |
| US | 12/537653      | 2009-08-07 | 8620000          | 2013-12-31 |
| US | 12/398631      | 2009-03-05 | 8374171          | 2013-02-12 |
| KR | 2009-0005486   | 2009-01-22 | 1308313          | 2013-09-06 |
| US | 12/559827      | 2009-09-15 | 8248450          | 2012-08-21 |
| KR | 2009-0011840   | 2009-02-13 | 1045430          | 2011-06-23 |
| US | 12/862344      | 2010-08-24 | 8793622          | 2014-07-29 |
| KR | 2010-0008678   | 2010-01-29 | 1157333          | 2012-06-11 |
| US | 09/758098      | 2001-01-10 | 6914891          | 2005-07-05 |
| CN | 01101317.6     | 2001-01-10 | ZL01101317.6     | 2004-09-29 |
| KR | 2012-0019290   | 2012-02-24 | 1330810          | 2013-11-12 |
| US | 11/209771      | 2005-08-24 | 7418257          | 2008-08-26 |
| US | 13/234997      | 2011-09-16 | 9015826          | 2015-04-21 |
| KR | 2011-0011100   | 2011-02-08 | 1250661          | 2013-03-28 |
| KR | 2011-0085324   | 2011-08-25 | 1318985          | 2013-10-10 |
| KR | 2011-0085807   | 2011-08-26 | 1419984          | 2014-07-09 |
| US | 12/847301      | 2010-07-30 | 8594645          | 2013-11-26 |
| KR | 2009-0082076   | 2009-09-01 | 1102088          | 2011-12-27 |
| CN | 201010269261.5 | 2010-08-31 | ZL201010269261.5 | 2016-11-30 |
| KR | 2011-0085917   | 2011-08-26 | 1361333          | 2014-02-04 |
| KR | 2011-0085881   | 2011-08-26 | 1266626          | 2013-05-15 |
| KR | 2011-0009470   | 2011-01-31 | 1334116          | 2013-11-19 |
| US | 11/154131      | 2005-06-15 | 7693799          | 2010-04-06 |
| KR | 2004-0090346   | 2004-11-08 | 582389           | 2006-05-15 |
| US | 12/612303      | 2009-11-04 | 8453055          | 2013-05-28 |
| KR | 2009-0045805   | 2009-05-26 | 1055924          | 2011-08-03 |
| CN | 201010136945.8 | 2010-03-31 | ZL201010136945.8 | 2013-03-27 |
| KR | 2010-0085446   | 2010-09-01 | 1340797          | 2013-12-05 |
| JP | 2011-164125    | 2011-07-27 | 5490759          | 2014-03-07 |
| KR | 2010-0073199   | 2010-07-29 | 1309424          | 2013-09-10 |
| FR | 11175594.8     | 2011-07-27 | 2487523          | 2014-06-18 |
| GB | 11175594.8     | 2011-07-27 | 2487523          | 2014-06-18 |
| DE | 11175594.8     | 2011-07-27 | 2487523          | 2014-06-18 |
| KR | 2010-0073201   | 2010-07-29 | 1280636          | 2013-06-25 |
| FR | 11172045.4     | 2011-06-30 | 2413609          | 2014-04-30 |
| GB | 11172045.4     | 2011-06-30 | 2413609          | 2014-04-30 |
| DE | 11172045.4     | 2011-06-30 | 2413609          | 2014-04-30 |

**PATENT**  
**REEL: 052662 FRAME: 0624**

|    |                |            |                  |            |
|----|----------------|------------|------------------|------------|
| US | 12/850869      | 2010-08-05 | 8599153          | 2013-12-03 |
| KR | 2009-0078193   | 2009-08-24 | 1099135          | 2011-12-20 |
| CN | 201010262676.X | 2010-08-24 | ZL201010262676.X | 2016-07-06 |
| GB | 10170234.8     | 2010-07-21 | 2290931          | 2015-12-23 |
| FR | 10170234.8     | 2010-07-21 | 2290931          | 2015-12-23 |
| DE | 10170234.8     | 2010-07-21 | 2290931          | 2015-12-23 |
| US | 12/477579      | 2009-06-03 | 8893052          | 2014-11-18 |
| KR | 2008-0111587   | 2008-11-11 | 1019335          | 2011-02-24 |
| KR | 2011-0091900   | 2011-09-09 | 1398709          | 2014-05-16 |
| KR | 2012-0019061   | 2012-02-24 | 1322952          | 2013-10-22 |
| KR | 2011-0090697   | 2011-09-07 | 1385429          | 2014-04-08 |
| US | 12/852685      | 2010-08-09 | 8601599          | 2013-12-03 |
| KR | 2009-0087594   | 2009-09-16 | 1012872          | 2011-01-27 |
| FR | 10170248.8     | 2010-07-21 | 2302549          | 2014-12-11 |
| DE | 10170248.8     | 2010-07-21 | 2302549          | 2014-12-11 |
| GB | 10170248.8     | 2010-07-21 | 2302549          | 2014-12-11 |
| US | 13/351119      | 2012-01-16 | 8626125          | 2014-01-07 |
| KR | 2011-0084790   | 2011-08-24 | 1380966          | 2014-03-27 |
| DE | 12168788.3     | 2012-05-22 | 2562673          | 2016-07-13 |
| US | 10/621244      | 2003-07-15 | 7561693          | 2009-07-14 |
| KR | 2002-0046599   | 2002-08-07 | 417125           | 2004-01-19 |
| CN | 03152635.7     | 2003-08-01 | ZL03152635.7     | 2009-07-15 |
| HK | 04104270.9     | 2004-06-14 | 1061323          | 2008-12-18 |
| GB | 03254484.3     | 2003-07-17 | 1388970          | 2006-02-15 |
| FR | 03254484.3     | 2003-07-17 | 1388970          | 2006-02-15 |
| DE | 03254484.3     | 2003-07-17 | 1388970          | 2006-02-15 |
| US | 11/129543      | 2005-05-13 | 7630183          | 2009-12-08 |
| KR | 2004-0043012   | 2004-06-11 | 633993           | 2006-10-04 |
| US | 13/332136      | 2011-12-20 | 8832426          | 2014-09-09 |
| KR | 2011-0084789   | 2011-08-24 | 1295709          | 2013-08-06 |
| KR | 2011-0090550   | 2011-09-07 | 1281825          | 2013-06-27 |
| KR | 2011-0091997   | 2011-09-09 | 1295508          | 2013-08-05 |
| KR | 2011-0091998   | 2011-09-09 | 1295428          | 2013-08-05 |
| US | 13/618333      | 2012-09-14 | 8891502          | 2014-11-18 |
| KR | 2011-0093918   | 2011-09-19 | 1341256          | 2013-12-06 |
| US | 13/652886      | 2012-10-16 | 8955056          | 2015-02-10 |
| KR | 2012-0019064   | 2012-02-24 | 1308351          | 2013-09-06 |
| KR | 2012-0019099   | 2012-02-24 | 1368550          | 2014-02-21 |
| KR | 2012-0018110   | 2012-02-22 | 1443960          | 2014-09-17 |
| US | 13/612524      | 2012-09-12 | 8866160          | 2014-11-11 |

**PATENT**  
**REEL: 052662 FRAME: 0625**

|    |                |            |                  |            |
|----|----------------|------------|------------------|------------|
| US | 10/963809      | 2004-10-14 | 7139588          | 2006-11-21 |
| KR | 2003-0071924   | 2003-10-15 | 591815           | 2006-06-13 |
| KR | 2003-0039692   | 2003-06-19 | 553421           | 2006-02-10 |
| US | 11/020613      | 2004-12-23 | 7426402          | 2008-09-16 |
| US | 12/860560      | 2010-08-20 | 8797921          | 2014-08-05 |
| JP | 2010-163575    | 2010-07-21 | 5523233          | 2014-04-18 |
| KR | 2010-0008321   | 2010-01-29 | 1080532          | 2011-10-31 |
| CN | 201010239201.9 | 2010-07-27 | ZL201010239201.9 | 2014-09-10 |
| US | 11/672615      | 2007-02-08 | 7920574          | 2011-04-05 |
| US | 11/017867      | 2004-12-22 | 8031597          | 2011-10-04 |
| KR | 2004-0011357   | 2004-02-20 | 604597           | 2006-07-18 |
| US | 11/485809      | 2006-07-12 | 7779324          | 2010-08-17 |
| KR | 2005-0073894   | 2005-08-11 | 745238           | 2007-07-26 |
| US | 13/177736      | 2011-07-07 | 8780734          | 2014-07-15 |
| KR | 2011-0002509   | 2011-01-11 | 1357527          | 2014-01-23 |
| KR | 2011-0084788   | 2011-08-24 | 1332814          | 2013-11-19 |
| US | 13/570213      | 2012-08-08 | 8929811          | 2015-01-06 |
| JP | 2012-183053    | 2012-08-22 | 5551217          | 2014-05-30 |
| KR | 2011-0084419   | 2011-08-24 | 1372667          | 2014-03-04 |
| GB | 12180602.0     | 2012-08-16 | 2563046          | 2018-11-21 |
| FR | 12180602.0     | 2012-08-16 | 2563046          | 2018-11-21 |
| DE | 12180602.0     | 2012-08-16 | 2563046          | 2018-11-21 |
| KR | 2011-0091365   | 2011-09-08 | 1337135          | 2013-11-28 |
| US | 13/019129      | 2011-02-01 | 8407279          | 2013-03-26 |
| KR | 2010-0071759   | 2010-07-26 | 1329847          | 2013-11-08 |
| KR | 2010-0074271   | 2010-07-30 | 1244016          | 2013-03-08 |
| KR | 2010-0076291   | 2010-08-09 | 1261687          | 2013-04-30 |
| JP | 2011-176074    | 2011-08-11 | 5395855          | 2013-10-25 |
| KR | 2010-0078113   | 2010-08-13 | 1308162          | 2013-09-06 |
| KR | 2010-0088700   | 2010-09-10 | 1419571          | 2014-07-08 |
| US | 12/868497      | 2010-08-25 | 8953835          | 2015-02-10 |
| KR | 2010-0008106   | 2010-01-28 | 1157597          | 2012-06-12 |
| CN | 201010286543.6 | 2010-09-17 | ZL201010286543.6 | 2016-08-10 |
| US | 11/302580      | 2005-12-13 | 7599718          | 2009-10-06 |
| CN | 200510022945.4 | 2005-12-19 | ZL200510022945.4 | 2010-12-01 |
| KR | 2010-0105082   | 2010-10-27 | 1312765          | 2013-09-23 |
| KR | 2010-0116257   | 2010-11-22 | 1340709          | 2013-12-05 |
| US | 12/398607      | 2009-03-05 | 8320534          | 2012-11-27 |
| KR | 2008-0020451   | 2008-03-05 | 971609           | 2010-07-14 |
| KR | 2012-0019102   | 2012-02-24 | 1399193          | 2014-05-19 |

**PATENT**  
**REEL: 052662 FRAME: 0626**

|    |                  |            |                  |            |
|----|------------------|------------|------------------|------------|
| US | 09/804912        | 2001-03-13 | 6970452          | 2005-11-29 |
| JP | 2010-252566      | 2010-11-11 | 5547611          | 2014-05-23 |
| KR | 2009-0114523     | 2009-11-25 | 1096408          | 2011-12-13 |
| CN | 201010552008.0   | 2010-11-17 | 102076110        | 2014-09-10 |
| US | 11/493216        | 2006-07-26 | 7796553          | 2010-09-14 |
| GB | 0615197.1        | 2006-07-31 | 2434951          | 2010-12-22 |
| FR | 0606808          | 2006-07-25 | 2896941          | 2010-02-26 |
| KR | 2006-0009591     | 2006-02-01 | 752770           | 2007-08-21 |
| CN | 200610110959.6   | 2006-08-11 | ZL200610110959.6 | 2014-01-29 |
| US | 10/973416        | 2004-10-27 | 7352719          | 2008-04-01 |
| KR | 2003-0075639     | 2003-10-28 | 541495           | 2005-12-29 |
| US | 11/148843        | 2005-06-09 | 7697597          | 2010-04-13 |
| US | 13/032207        | 2011-02-22 | 8620377          | 2013-12-31 |
| US | 11/263241        | 2005-10-31 | 7912496          | 2011-03-22 |
| KR | 2005-0000550     | 2005-01-04 | 604546           | 2006-07-18 |
| CN | 200510114579.5   | 2005-10-26 | ZL200510114579.5 | 2010-05-05 |
| US | 11/165704        | 2005-06-24 | 7542724          | 2009-06-02 |
| KR | 2004-0063810     | 2004-08-13 | 552238           | 2006-02-07 |
| US | 12/477567        | 2009-06-03 | 8750872          | 2014-06-10 |
| KR | 2008-0057712     | 2008-06-19 | 970549           | 2010-07-08 |
| CN | 200510091166.X   | 2005-08-09 | ZL200510091166.X | 2007-11-21 |
| US | 10/068479        | 2002-02-07 | 7107082          | 2006-09-12 |
| IL | 147799           | 2002-01-23 | 147799           | 2007-10-25 |
| CN | 200510115553.2   | 2005-11-04 | ZL200510115553.2 | 2011-09-28 |
| US | 11/025986        | 2005-01-03 | 7496337          | 2009-02-24 |
| US | 13/118770        | 2011-05-31 | 8528051          | 2013-09-03 |
| KR | 2010-0134362     | 2010-12-24 | 1328779          | 2013-11-06 |
| KR | 2012-0019340     | 2012-02-24 | 1332813          | 2013-11-19 |
| US | 11/694243        | 2007-03-30 | 7869489          | 2011-01-11 |
| JP | 2002-169135      | 2002-06-10 | 3886853          | 2006-12-01 |
| US | 10/165709        | 2002-06-07 | 7085331          | 2006-08-01 |
| CN | 02126395.7       | 2002-06-09 | ZL02126395.7     | 2006-07-05 |
| US | 13/342360        | 2012-01-03 | 8559572          | 2013-10-15 |
| JP | 2011-131365      | 2011-06-13 | 5178883          | 2013-01-18 |
| US | 11/910143        | 2006-03-28 | 8588190          | 2013-11-19 |
| VN | 1-2007-01977     | 2007-09-27 | 9723             | 2011-08-11 |
| MX | MX/A/2007/011876 | 2007-09-26 | 283361           | 2010-12-28 |
| DE | 06732719.7       | 2007-09-27 | 1864408          | 2014-11-13 |
| FR | 06732719.7       | 2007-09-27 | 1864408          | 2014-11-13 |
| GB | 06732719.7       | 2007-09-27 | 1864408          | 2014-11-13 |

**PATENT**  
**REEL: 052662 FRAME: 0627**

|    |                |            |                  |            |
|----|----------------|------------|------------------|------------|
| KR | 2011-0084516   | 2011-08-24 | 1314424          | 2013-09-26 |
| US | 11/263953      | 2005-11-02 | 8391274          | 2013-03-05 |
| KR | 2004-0104423   | 2004-12-10 | 604530           | 2006-07-18 |
| US | 10/744794      | 2003-12-22 | 7609965          | 2009-10-27 |
| KR | 2010-0009887   | 2010-02-03 | 1327636          | 2013-11-04 |
| US | 13/015890      | 2011-01-28 | 8472953          | 2013-06-25 |
| KR | 2010-0009886   | 2010-02-03 | 1260560          | 2013-04-26 |
| US | 11/236519      | 2005-09-28 | 7424297          | 2008-09-09 |
| US | 12/185355      | 2008-08-04 | 7873360          | 2011-01-18 |
| KR | 2010-0009880   | 2010-02-03 | 1327596          | 2013-11-04 |
| KR | 2010-0119798   | 2010-11-29 | 1462856          | 2014-11-12 |
| US | 11/340398      | 2006-01-25 | 7809839          | 2010-10-05 |
| KR | 2005-0007190   | 2005-01-26 | 716817           | 2007-05-03 |
| KR | 2006-0097537   | 2006-10-04 | 818630           | 2008-03-26 |
| US | 12/369500      | 2009-02-11 | 8139480          | 2012-03-20 |
| KR | 2008-0052623   | 2008-06-04 | 969154           | 2010-07-01 |
| US | 11/257919      | 2005-10-25 | 7471967          | 2008-12-30 |
| US | 12/847130      | 2010-07-30 | 8346322          | 2013-01-01 |
| KR | 2002-0037567   | 2002-06-29 | 466594           | 2005-01-06 |
| HK | 03101180.5     | 2003-02-18 | 1049082          | 2005-04-22 |
| CN | 02106411.3     | 2002-02-27 | ZL02106411.3     | 2004-07-28 |
| US | 09/927945      | 2001-08-10 | 6975724          | 2005-12-13 |
| US | 12/831686      | 2010-07-07 | 8803016          | 2014-08-12 |
| KR | 2009-0094615   | 2009-10-06 | 1092179          | 2011-12-02 |
| JP | 2010-007895    | 2010-01-18 | 5220042          | 2013-03-15 |
| US | 12/556366      | 2009-09-09 | 7833029          | 2010-11-16 |
| KR | 2009-0017078   | 2009-02-27 | 1049347          | 2011-07-07 |
| CN | 200910226069.5 | 2009-11-25 | ZL200910226069.5 | 2013-11-20 |
| DE | 09180072.2     | 2009-12-21 | 2224692          | 2013-11-28 |
| GB | 09180072.2     | 2009-12-21 | 2224692          | 2013-11-28 |
| FR | 09180072.2     | 2009-12-21 | 2224692          | 2013-11-28 |
| US | 12/646011      | 2009-12-23 | 8514558          | 2013-08-20 |
| KR | 2009-0048196   | 2009-06-01 | 1027096          | 2011-03-29 |
| US | 11/389895      | 2006-03-27 | 7567830          | 2009-07-28 |
| US | 11/476311      | 2006-06-27 | 7577466          | 2009-08-18 |
| KR | 2005-0127391   | 2005-12-21 | 743093           | 2007-07-20 |
| US | 11/306939      | 2006-01-17 | 7679808          | 2010-03-16 |
| US | 13/346447      | 2012-01-09 | 8611084          | 2013-12-17 |
| KR | 2011-0009479   | 2011-01-31 | 1331694          | 2013-11-14 |
| US | 13/367835      | 2012-02-07 | 8672692          | 2014-03-18 |

**PATENT**  
**REEL: 052662 FRAME: 0628**

|    |                |            |                  |            |
|----|----------------|------------|------------------|------------|
| US | 13/427447      | 2012-03-22 | 9042095          | 2015-05-26 |
| US | 14/719857      | 2015-05-22 | 9395760          | 2016-07-19 |
| US | 15/212860      | 2016-07-18 | 9705553          | 2017-07-11 |
| JP | 2012-192851    | 2012-09-03 | 5512767          | 2014-04-04 |
| CN | 201210318659.2 | 2012-08-31 | ZL201210318659.2 | 2016-07-06 |
| KR | 2011-0089288   | 2011-09-02 | 1395358          | 2014-05-08 |
| KR | 2010-0062787   | 2010-06-30 | 1292974          | 2013-07-29 |
| DE | 11171248.5     | 2011-06-24 | 2403222          | 2013-02-14 |
| GB | 11171248.5     | 2011-06-24 | 2403222          | 2013-02-14 |
| FR | 11171248.5     | 2011-06-24 | 2403222          | 2013-02-14 |
| US | 12/849614      | 2010-08-03 | 8380327          | 2013-02-19 |
| KR | 2010-0008584   | 2010-01-29 | 1067587          | 2011-09-19 |
| CN | 201010243173.8 | 2010-07-28 | ZL201010243173.8 | 2014-02-26 |
| KR | 2010-0100044   | 2010-10-13 | 1258327          | 2013-04-19 |
| US | 12/852675      | 2010-08-09 | 8922531          | 2014-12-30 |
| KR | 2010-0008586   | 2010-01-29 | 1078899          | 2011-10-26 |
| JP | 2011-260951    | 2011-11-29 | 5478593          | 2014-02-21 |
| KR | 2011-0055309   | 2011-06-08 | 1245375          | 2013-03-13 |
| KR | 2011-0077473   | 2011-08-03 | 1330809          | 2013-11-12 |
| KR | 2011-0081399   | 2011-08-16 | 1306287          | 2013-09-03 |
| JP | 2012-160295    | 2012-07-19 | 5465756          | 2014-01-31 |
| KR | 2011-0085121   | 2011-08-25 | 1340716          | 2013-12-05 |
| US | 10/810367      | 2004-03-26 | 6995717          | 2006-02-07 |
| KR | 2005-0081446   | 2005-09-01 | 718375           | 2007-05-08 |
| GB | 06250230.7     | 2005-09-01 | 1760827          | 2009-11-18 |
| FR | 06250230.7     | 2005-09-01 | 1760827          | 2009-11-18 |
| DE | 06250230.7     | 2005-09-01 | 1760827          | 2009-11-18 |
| CN | 200610007016.0 | 2006-02-14 | 1925213          | 2012-01-11 |
| US | 11/172268      | 2005-06-29 | 7599725          | 2009-10-06 |
| US | 11/387330      | 2006-03-23 | 7626553          | 2009-12-01 |
| US | 12/876692      | 2010-09-07 | 8581786          | 2013-11-12 |
| KR | 2011-0007015   | 2011-01-24 | 1332846          | 2013-11-19 |
| US | 10/185119      | 2002-06-27 | 6930671          | 2005-08-16 |
| CN | 02140919.6     | 2002-07-10 | ZL02140919.6     | 2008-05-07 |
| US | 11/257702      | 2005-10-25 | 7466995          | 2008-12-16 |
| KR | 2004-0112066   | 2004-12-24 | 591825           | 2006-06-13 |
| US | 13/229034      | 2011-09-09 | 8754608          | 2014-06-17 |
| KR | 2011-0014187   | 2011-02-17 | 1243587          | 2013-03-07 |
| US | 11/072912      | 2005-03-04 | 7702118          | 2010-04-20 |
| HK | 06100322.3     | 2006-01-02 | 1077962          | 2010-09-30 |

**PATENT**  
**REEL: 052662 FRAME: 0629**

|    |              |            |          |            |
|----|--------------|------------|----------|------------|
| KR | 2010-0008804 | 2010-01-29 | 1093222  | 2011-12-06 |
| US | 11/301841    | 2005-12-12 | 7657046  | 2010-02-02 |
| KR | 2005-0016126 | 2005-02-25 | 718384   | 2007-05-08 |
| US | 12/251592    | 2008-10-15 | 7835699  | 2010-11-16 |
| US | 11/326534    | 2006-01-05 | 7505737  | 2009-03-17 |
| US | 11/582104    | 2006-10-17 | 7733206  | 2010-06-08 |
| KR | 2005-0097446 | 2005-10-17 | 716848   | 2007-05-03 |
| KR | 2010-0127685 | 2010-12-14 | 1330262  | 2013-11-11 |
| KR | 2011-0003512 | 2011-01-13 | 1240082  | 2013-02-27 |
| KR | 2012-0020996 | 2012-02-29 | 1345960  | 2013-12-20 |
| KR | 2011-0003721 | 2011-01-13 | 1275289  | 2013-06-10 |
| KR | 2011-0068920 | 2011-07-12 | 1337014  | 2013-11-28 |
| US | 15/243594    | 2016-08-22 | 10250398 | 2019-04-02 |
| US | 13/251416    | 2011-10-03 | 9426039  | 2016-08-23 |
| JP | 2011-274921  | 2011-12-15 | 5244959  | 2013-04-12 |
| GB | 11187610.8   | 2011-11-03 | 2469754  | 2016-01-27 |
| FR | 11187610.8   | 2011-11-03 | 2469754  | 2016-01-27 |
| DE | 11187610.8   | 2011-11-03 | 2469754  | 2016-01-27 |
| KR | 2010-0135729 | 2010-12-27 | 1337724  | 2013-11-29 |
| KR | 20140054468  | 2014-05-07 |          |            |
| KR | 20140011400  | 2014-01-29 |          |            |
| KR | 20130123911  | 2013-10-17 |          |            |
| KR | 20130094767  | 2013-08-09 |          |            |
| KR | 20130111132  | 2013-09-16 |          |            |
| KR | 2001-0040610 | 2001-07-07 | 407207   | 2003-11-14 |
| KR | 20130095038  | 2013-08-09 |          |            |
| KR | 20130094768  | 2013-08-09 |          |            |
| KR | 20140055304  | 2014-05-09 |          |            |
| KR | 20140055303  | 2014-05-09 |          |            |
| KR | 20140053657  | 2014-05-02 |          |            |
| KR | 20140032294  | 2014-03-19 |          |            |
| KR | 20130115645  | 2013-09-27 |          |            |
| KR | 20140102074  | 2014-08-08 |          |            |
| KR | 20130082112  | 2013-07-12 |          |            |
| KR | 20130094052  | 2013-08-08 |          |            |
| KR | 20130094916  | 2013-08-09 |          |            |
| KR | 20130094915  | 2013-08-09 |          |            |
| KR | 20130093869  | 2013-08-07 |          |            |
| KR | 20130094996  | 2013-08-09 |          |            |
| KR | 20130095026  | 2013-08-09 | 2082001  | 2020-02-26 |

**PATENT**  
**REEL: 052662 FRAME: 0630**

|    |                  |            |         |            |
|----|------------------|------------|---------|------------|
| KR | 20130093737      | 2013-08-07 | 2082000 | 2020-02-26 |
| KR | 20130095037      | 2013-08-09 |         |            |
| KR | 2013-0053096     | 2013-05-10 | 2003273 | 2019-07-18 |
| KR | 2013-0053458     | 2013-05-10 | 2049392 | 2019-11-21 |
| KR | 2013-0040412     | 2013-04-12 | 2049391 | 2019-11-21 |
| KR | 20130081760      | 2013-07-11 | 2094419 | 2020-03-23 |
| KR | 20140003190      | 2014-01-10 |         |            |
| KR | 2013-0051308     | 2013-05-07 | 2061196 | 2019-12-24 |
| KR | 20130047512      | 2013-04-29 |         |            |
| KR | 2009-0098751     | 2009-10-16 | 1083542 | 2011-11-08 |
| KR | 2009-0068263     | 2009-07-27 | 1056332 | 2011-08-04 |
| KR | 2009-0051000     | 2009-06-09 | 1083579 | 2011-11-08 |
| KR | 2006-0071499     | 2006-07-28 | 1174168 | 2012-08-08 |
| KR | 2012-0021499     | 2012-02-29 | 1386809 | 2014-04-11 |
| US | 13/676202        | 2012-11-14 | 9445384 | 2016-09-13 |
| KR | 2005-0088765     | 2005-09-23 | 751101  | 2007-08-14 |
| KR | 2012-0149276     | 2012-12-20 | 1487517 | 2015-01-22 |
| KR | 2005-0053328     | 2005-06-21 | 702673  | 2007-03-27 |
| KR | 2006-0027882     | 2006-03-28 | 829989  | 2008-05-08 |
| KR | 20130081759      | 2013-07-11 | 2081999 | 2020-02-20 |
| KR | 2013-0039197     | 2013-04-10 | 1489676 | 2015-01-29 |
| US | 14/247947        | 2014-04-08 | 9774361 | 2017-09-26 |
| KR | 2012-0017578     | 2012-02-21 | 1335247 | 2013-11-25 |
| KR | 2004-0074650     | 2004-09-17 | 640536  | 2006-10-24 |
| KR | 2006-0052955     | 2006-06-13 | 1200612 | 2012-11-06 |
| DE | 06835569.2       | 2006-12-29 | 1974480 | 2010-12-22 |
| FR | 06835569.2       | 2006-12-29 | 1974480 | 2005-02-16 |
| GB | 06835569.2       | 2006-12-29 | 1974480 | 2006-08-18 |
| MX | MX/A/2008/008498 | 2006-12-29 | 284089  | 2007-04-24 |
| KR | 2005-0129697     | 2005-12-26 | 687301  | 2007-02-20 |
| KR | 2003-0079308     | 2003-11-11 | 573079  | 2006-04-14 |
| KR | 2012-0149582     | 2012-12-20 | 1467568 | 2014-11-26 |
| US | 14/044283        | 2013-10-02 | 9754557 | 2017-09-05 |
| KR | 2013-0039495     | 2013-04-10 | 1479582 | 2014-12-30 |
| KR | 2012-0149811     | 2012-12-20 | 1489675 | 2015-01-29 |
| KR | 2012-0019235     | 2012-02-24 | 1337192 | 2013-11-28 |
| KR | 2003-0011354     | 2003-02-24 | 978464  | 2010-08-20 |
| KR | 2013-0034314     | 2013-03-29 | 1483213 | 2015-01-09 |
| US | 14/225209        | 2014-03-25 | 9756436 | 2017-09-05 |
| KR | 2005-0102198     | 2005-10-28 | 796342  | 2008-01-14 |

**PATENT**  
**REEL: 052662 FRAME: 0631**

|    |                |            |                  |            |
|----|----------------|------------|------------------|------------|
| KR | 2005-0055754   | 2005-06-27 | 640499           | 2006-10-24 |
| JP | 2006-235611    | 2006-08-31 | 4955346          | 2014-06-13 |
| CN | 200610073288.0 | 2006-04-07 | ZL200610073288.0 | 2013-03-27 |
| KR | 2012-0074902   | 2012-07-10 | 1375908          | 2014-03-12 |
| US | 13/793691      | 2013-03-11 | 8855481          | 2014-10-07 |
| KR | 2012-0030546   | 2012-03-26 | 1285509          | 2013-07-05 |
| US | 13/737582      | 2013-01-09 | 9324176          | 2016-04-26 |
| KR | 2004-0100392   | 2004-12-02 | 1081629          | 2011-11-02 |
| DE | 04030893.4     | 2004-12-28 | 1551157          | 2015-01-07 |
| GB | 04030893.4     | 2004-12-28 | 1551157          | 2015-01-07 |
| FR | 04030893.4     | 2004-12-28 | 1551157          | 2015-01-07 |
| KR | 2003-0072812   | 2003-10-18 | 567545           | 2006-03-28 |
| KR | 2003-0057244   | 2003-08-19 | 545083           | 2006-01-13 |
| KR | 20130111131    | 2013-09-16 |                  |            |
| KR | 2010-0136589   | 2010-12-28 | 1315398          | 2013-09-30 |
| KR | 2013-0086039   | 2013-07-22 | 1383381          | 2014-04-02 |
| KR | 2004-0076020   | 2004-09-22 | 573895           | 2006-04-19 |
| KR | 2012-0109400   | 2012-09-28 | 1487516          | 2015-01-22 |
| KR | 20130111437    | 2013-09-16 |                  |            |
| KR | 20130103415    | 2013-08-29 |                  |            |
| KR | 2004-0039185   | 2004-05-31 | 693592           | 2007-03-05 |
| CN | 200410086513.5 | 2004-10-21 | ZL200410086513.5 | 2009-07-22 |
| KR | 2013-0019951   | 2013-02-25 | 1488930          | 2015-01-27 |
| KR | 2010-0073202   | 2010-07-29 | 1258322          | 2013-04-19 |
| JP | 2011-158737    | 2011-07-20 | 5559103          | 2010-12-22 |
| CN | 20110210453.3  | 2011-07-26 | CN102404446B     | 2014-03-19 |
| KR | 2004-0096560   | 2004-11-23 | 685286           | 2007-02-14 |
| KR | 2013-0036170   | 2013-04-03 | 1531856          | 2015-06-22 |
| KR | 2004-0063556   | 2004-08-12 | 604582           | 2006-07-18 |
| KR | 2002-0052749   | 2002-09-03 | 455998           | 2004-10-28 |
| KR | 2012-0098035   | 2012-09-05 | 1465974          | 2014-11-21 |
| KR | 2003-0054668   | 2003-08-07 | 541502           | 2005-12-29 |
| KR | 20130111929    | 2013-09-17 |                  |            |
| KR | 2012-0123170   | 2012-11-01 | 1417387          | 2014-07-02 |
| KR | 2012-0149851   | 2012-12-20 | 1464834          | 2014-11-18 |
| KR | 2013-0028069   | 2013-03-15 | 1505127          | 2015-03-17 |
| KR | 2013-0039261   | 2013-04-10 | 1463450          | 2014-11-13 |
| KR | 2013-0009329   | 2013-01-28 | 1453979          | 2014-10-16 |
| KR | 2012-0149266   | 2012-12-20 | 1464833          | 2014-11-18 |
| KR | 2012-0019098   | 2012-02-24 | 1325867          | 2013-10-30 |

**PATENT**  
**REEL: 052662 FRAME: 0632**

|    |              |            |         |            |
|----|--------------|------------|---------|------------|
| KR | 2005-0017382 | 2005-03-02 | 1229574 | 2013-01-29 |
| KR | 20130112355  | 2013-09-23 | 2068840 | 2020-01-23 |
| KR | 20130111362  | 2013-09-16 |         |            |
| US | 14/473,451   | 2014-08-29 |         |            |
| KR | 20130111353  | 2013-09-16 |         |            |
| KR | 20130089111  | 2013-07-26 |         |            |
| US | 14/300525    | 2014-06-10 |         |            |
| KR | 2013-0037601 | 2013-04-05 | 1504490 | 2015-03-16 |
| US | 14/245,884   | 2014-04-04 |         |            |
| KR | 2013-0037674 | 2013-04-05 | 1508680 | 2015-03-30 |
| US | 14/222131    | 2014-03-21 | 9271323 | 2016-02-23 |
| KR | 2012-0149803 | 2012-12-20 | 1380430 | 2014-03-26 |
| KR | 2012-0149771 | 2012-12-20 | 1487874 | 2015-01-23 |
| KR | 2012-0096404 | 2012-08-31 | 1371958 | 2014-02-28 |
| KR | 2012-0021501 | 2012-02-29 | 1382043 | 2014-03-31 |
| KR | 2012-0021502 | 2012-02-29 | 1386735 | 2014-04-11 |
| KR | 2005-0133411 | 2005-12-29 | 747895  | 2007-08-02 |
| KR | 2002-0060689 | 2002-10-04 | 448694  | 2004-09-03 |
| KR | 2005-0126587 | 2005-12-21 | 688292  | 2007-02-22 |
| KR | 2004-0078616 | 2004-10-04 | 706384  | 2007-04-04 |
| KR | 2004-0070917 | 2004-09-06 | 632118  | 2006-09-27 |
| KR | 2001-0081593 | 2001-12-20 | 420681  | 2004-02-18 |
| KR | 2014-0082517 | 2014-07-02 | 1556718 | 2015-09-23 |
| KR | 20130111130  | 2013-09-16 |         |            |
| KR | 2013-0038279 | 2013-04-08 | 1496990 | 2015-02-23 |
| KR | 2012-0097779 | 2012-09-04 | 1498603 | 2015-02-26 |
| KR | 2012-0098905 | 2012-09-06 | 1369430 | 2014-02-25 |
| KR | 2012-0019292 | 2012-02-24 | 1369428 | 2014-02-25 |
| KR | 2012-0021397 | 2012-02-29 | 1363560 | 2014-02-10 |
| US | 13/546335    | 2012-07-11 | 9112966 | 2015-08-18 |
| KR | 2011-0087089 | 2011-08-30 | 1351162 | 2014-01-07 |
| KR | 2010-0008281 | 2010-01-29 | 1090602 | 2011-11-30 |
| KR | 2003-0080819 | 2003-11-15 | 528775  | 2005-11-08 |
| KR | 2004-0109893 | 2004-12-21 | 688296  | 2007-02-22 |
| KR | 2004-0074944 | 2004-09-20 | 1077710 | 2011-10-21 |
| KR | 2004-0027927 | 2004-04-22 | 600334  | 2006-07-05 |
| KR | 2002-0072945 | 2002-11-22 | 470553  | 2005-01-28 |
| KR | 2002-0038186 | 2002-07-03 | 453322  | 2004-10-07 |
| KR | 2013-0036808 | 2013-04-04 | 1472397 | 2014-12-08 |
| KR | 2013-0019078 | 2013-02-22 | 1384929 | 2014-04-07 |

**PATENT**  
**REEL: 052662 FRAME: 0633**

|    |                |            |                  |            |
|----|----------------|------------|------------------|------------|
| KR | 2012-0095544   | 2012-08-30 | 1379574          | 2014-03-24 |
| KR | 2012-0105731   | 2012-09-24 | 1394874          | 2014-05-07 |
| KR | 2012-0089918   | 2012-08-17 | 1393794          | 2014-05-02 |
| EP | 13159667.8     | 2013-03-18 |                  |            |
| US | 16/135,571     | 2018-09-19 |                  |            |
| CN | 201310118700.6 | 2013-04-08 | ZL201310118700.6 | 2012-12-19 |
| KR | 2012-0095516   | 2012-08-30 | 1378630          | 2014-03-20 |
| US | 14/011128      | 2013-08-27 | 9148810          | 2015-09-29 |
| US | 14/864220      | 2015-09-24 | 9686160          | 2017-06-20 |
| KR | 2012-0106051   | 2012-09-24 | 1397711          | 2014-05-14 |
| KR | 2012-0058961   | 2012-06-01 | 1395480          | 2014-05-08 |
| US | 15/264235      | 2016-09-13 | 10140014         | 2018-11-27 |
| US | 13/905622      | 2013-05-30 | 9448652          | 2016-09-20 |
| KR | 2012-0020911   | 2012-02-29 | 1383529          | 2014-04-02 |
| KR | 2012-0018009   | 2012-02-22 | 1312125          | 2013-09-17 |
| KR | 2012-0021232   | 2012-02-29 | 1359867          | 2014-01-29 |
| KR | 2011-0092193   | 2011-09-09 | 1380967          | 2014-03-27 |
| KR | 2010-0081676   | 2010-08-23 | 1327112          | 2013-11-01 |
| KR | 2009-0123793   | 2009-12-14 | 1076190          | 2011-10-17 |
| KR | 2009-0096559   | 2009-10-12 | 1074583          | 2011-10-11 |
| KR | 2005-0063241   | 2005-07-13 | 1132112          | 2012-03-23 |
| CN | 200510118716.2 | 2005-10-28 | ZL200510118716.2 | 2012-05-30 |
| KR | 2004-0066266   | 2004-08-23 | 1016819          | 2011-02-15 |
| KR | 2003-0051089   | 2003-07-24 | 545095           | 2006-01-13 |
| KR | 2003-0046933   | 2003-07-10 | 543302           | 2006-01-06 |
| KR | 2003-0051062   | 2003-07-24 | 545451           | 2006-01-16 |
| KR | 2006-0035024   | 2006-04-18 | 1217240          | 2012-12-24 |
| KR | 2005-0061756   | 2005-07-08 | 632671           | 2006-09-28 |
| KR | 2004-0084322   | 2004-10-21 | 601924           | 2006-07-10 |
| KR | 2004-0061980   | 2004-08-06 | 1021334          | 2011-03-03 |
| KR | 2004-0019265   | 2004-03-22 | 1041325          | 2011-06-07 |
| KR | 2003-0064979   | 2003-09-19 | 573849           | 2006-04-18 |
| KR | 2002-0088012   | 2002-12-31 | 448898           | 2004-09-06 |
| KR | 2001-0078201   | 2001-12-11 | 420679           | 2004-02-18 |
| KR | 20130112337    | 2013-09-23 |                  |            |
| US | 15/424576      | 2017-02-03 | 10459628         | 2019-10-29 |
| US | 14/486498      | 2014-09-15 | 9563356          | 2017-02-07 |
| KR | 2013-0042864   | 2013-04-18 | 1495257          | 2015-02-13 |
| US | 14/252139      | 2014-04-14 | 9535571          | 2017-01-03 |
| KR | 2013-0019933   | 2013-02-25 | 1428365          | 2014-08-01 |

**PATENT**  
**REEL: 052662 FRAME: 0634**

|    |                |            |                  |            |
|----|----------------|------------|------------------|------------|
| US | 14/182928      | 2014-02-18 | 9298348          | 2016-03-29 |
| KR | 2013-0018457   | 2013-02-21 | 1561827          | 2015-10-14 |
| KR | 2013-0037055   | 2013-04-04 | 1547953          | 2015-08-21 |
| KR | 2012-0096079   | 2012-08-31 | 1417332          | 2014-07-01 |
| KR | 2012-0105575   | 2012-09-24 | 1404380          | 2014-05-29 |
| KR | 2012-0021479   | 2012-02-29 | 1381484          | 2014-03-28 |
| KR | 2012-0021037   | 2012-02-29 | 1383537          | 2014-04-02 |
| KR | 2012-0019234   | 2012-02-24 | 1417253          | 2014-07-01 |
| KR | 2010-0008824   | 2010-01-29 | 1393942          | 2014-05-02 |
| US | 13/006056      | 2010-01-29 | 8711179          | 2014-04-29 |
| KR | 2009-0084563   | 2009-09-08 | 1078141          | 2011-10-24 |
| KR | 2009-0007459   | 2009-01-30 | 1330264          | 2013-11-11 |
| KR | 2006-0072022   | 2006-07-31 | 802208           | 2008-01-31 |
| KR | 20130111438    | 2013-09-16 |                  |            |
| KR | 2004-0038923   | 2004-05-31 | 609954           | 2006-07-31 |
| CN | 200510053825.0 | 2005-03-14 | ZL200510053825.0 | 2008-10-15 |
| KR | 2003-0068727   | 2003-10-02 | 549344           | 2006-01-26 |
| CN | 200310124221.1 | 2003-12-31 | ZL200310124221.1 | 2009-04-01 |
| KR | 2003-0021924   | 2003-04-08 | 494876           | 2005-06-02 |
| KR | 2006-0001566   | 2006-01-06 | 688293           | 2007-02-22 |
| KR | 2004-0091712   | 2004-11-11 | 582366           | 2006-05-15 |
| KR | 2003-0088616   | 2003-12-08 | 976601           | 2010-08-11 |
| KR | 2002-0060913   | 2002-10-07 | 450137           | 2004-09-15 |
| KR | 2000-0051932   | 2000-09-04 | 335824           | 2002-04-25 |
| CN | 200610004541.7 | 2006-01-27 | ZL200610004541.7 | 2010-10-20 |
| KR | 20130112356    | 2013-09-23 |                  |            |
| KR | 2013-0002988   | 2013-01-10 | 1421369          | 2014-07-14 |
| KR | 2012-0096714   | 2012-08-31 | 1469206          | 2014-11-28 |
| KR | 2012-0094681   | 2012-08-29 | 1443964          | 2014-09-17 |
| KR | 2012-0066612   | 2012-06-21 | 1341737          | 2013-12-09 |
| EP | 13160989.3     | 2013-03-26 | 2677411          | 2019-07-31 |
| DE | 13160989.3     | 2013-03-26 | 2677411          | 2019-07-31 |
| FR | 13160989.3     | 2013-03-26 | 2677411          | 2019-07-31 |
| GB | 13160989.3     | 2013-03-26 | 2677411          | 2019-07-31 |
| CN | 201310137136.2 |            | ZL201310137136.2 | 2017-10-20 |
| JP | 2013-129302    | 2013-06-20 | 5636473          | 2006-02-07 |
| KR | 2012-0018506   | 2012-02-23 | 1343610          | 2013-12-13 |
| KR | 2012-0018505   | 2012-02-23 | 1369429          | 2014-02-25 |
| KR | 2012-0018503   | 2012-02-23 | 1296869          | 2013-08-08 |
| US | 13/713500      | 2012-12-13 | 10055037         | 2018-08-21 |

**PATENT**  
**REEL: 052662 FRAME: 0635**

|    |                |            |                  |            |
|----|----------------|------------|------------------|------------|
| KR | 2011-0091901   | 2011-09-09 | 1340677          | 2013-12-05 |
| US | 13/603376      | 2012-09-04 | 9063654          | 2015-06-23 |
| KR | 2010-0079128   | 2010-08-17 | 1361214          | 2014-02-04 |
| KR | 2009-0017568   | 2009-03-02 | 993064           | 2010-11-02 |
| KR | 2008-0101539   | 2008-10-16 | 1001824          | 2010-12-09 |
| KR | 2006-0004031   | 2006-01-13 | 710675           | 2007-04-17 |
| KR | 2012-0149591   | 2012-12-20 | 1418552          | 2014-07-04 |
| KR | 2011-0086536   | 2011-08-29 | 1341727          | 2013-12-09 |
| US | 13/594,023     | 2012-08-24 |                  |            |
| KR | 2010-0008733   | 2010-01-29 | 1114750          | 2012-02-02 |
| CN | 201010255184.8 | 2010-08-13 | ZL201010255184.8 | 2014-03-19 |
| KR | 2005-0085025   | 2005-09-13 | 1153488          | 2012-05-30 |
| KR | 2005-0004729   | 2005-01-18 | 706391           | 2007-04-04 |
| KR | 20130162987    | 2013-12-24 |                  |            |
| KR | 2012-0095053   | 2012-08-29 | 1391508          | 2014-04-25 |
| KR | 2012-0018027   | 2012-02-22 | 1320739          | 2013-10-15 |
| KR | 2006-0040885   | 2006-05-08 | 1163241          | 2012-06-29 |
| KR | 2013-0039542   | 2013-04-10 | 1515198          | 2015-04-20 |
| KR | 2013-0011821   | 2013-02-01 | 1495766          | 2015-02-16 |
| KR | 2012-0019101   | 2012-02-24 | 1373461          | 2014-03-05 |
| KR | 2012-0018008   | 2012-02-22 | 1280753          | 2013-06-25 |
| KR | 20130111408    | 2013-09-16 |                  |            |
| KR | 20130102735    | 2013-08-28 |                  |            |
| KR | 2013-0037209   | 2013-04-05 | 1512296          | 2015-04-09 |
| KR | 2013-0037579   | 2013-04-05 | 1517895          | 2015-04-29 |
| US | 14/245577      | 2014-04-04 | 9483492          | 2016-11-01 |
| KR | 2012-0097212   | 2012-09-03 | 1383957          | 2014-04-03 |
| KR | 2012-0098309   | 2012-09-05 | 1461650          | 2014-11-07 |
| KR | 2012-0099106   | 2012-09-07 | 1371923          | 2014-02-28 |
| KR | 2005-0079769   | 2005-08-30 | 642471           | 2006-10-27 |
| KR | 2004-0035859   | 2004-05-20 | 553430           | 2006-02-10 |
| KR | 2005-0056529   | 2005-06-28 | 693552           | 2007-03-05 |
| KR | 2003-0055445   | 2003-08-11 | 542704           | 2006-01-04 |
| KR | 2011-0091634   | 2011-09-09 | 1563150          | 2015-10-20 |
| CN | 201210332356.6 | 2012-09-10 | ZL201210332356.6 | 2005-11-23 |
| KR | 2003-0069922   | 2003-10-08 | 566166           | 2006-01-06 |
| KR | 2013-0034406   | 2013-03-29 | 1467196          | 2014-11-25 |
| US | 14/222090      | 2014-03-21 | 10403964         | 2019-09-03 |
| JP | 2014-070216    | 2014-03-28 | 6000298          | 2006-08-01 |
| CN | 201410123147.X | 2014-03-28 | ZL201410123147.X | 2017-10-24 |

**PATENT**  
**REEL: 052662 FRAME: 0636**

|    |                  |            |                  |            |
|----|------------------|------------|------------------|------------|
| KR | 2011-0119450     | 2011-11-16 | 1318575          | 2013-10-08 |
| KR | 2005-0127176     | 2005-12-21 | 645526           | 2006-11-06 |
| KR | 2005-0078411     | 2005-08-25 | 1085521          | 2011-11-15 |
| KR | 2005-0017024     | 2005-02-28 | 1139647          | 2012-04-17 |
| KR | 2012-0020995     | 2012-02-29 | 1292412          | 2013-07-26 |
| KR | 2012-0021454     | 2012-02-29 | 1240724          | 2013-02-28 |
| KR | 2012-0019685     | 2012-02-27 | 1375962          | 2014-03-12 |
| KR | 2012-0020994     | 2012-02-29 | 1454685          | 2014-10-20 |
| US | 14/017960        | 2013-09-04 | 9065892          | 2015-06-23 |
| KR | 2012-0019236     | 2012-02-24 | 1320182          | 2013-10-14 |
| CN | 200510127036.7   | 2005-11-29 | ZL200510127036.7 | 2010-05-12 |
| KR | 2005-0062817     | 2005-07-12 | 706396           | 2007-04-04 |
| DE | 05000279.9       | 2005-01-07 | 1553749          | 2010-03-17 |
| GB | 05000279.9       | 2005-01-07 | 1553749          | 2010-03-17 |
| CN | 200510054192.5   | 2005-01-07 | ZL200510054192.5 | 2008-11-26 |
| KR | 2002-0000669     | 2002-01-07 | 466596           | 2005-01-06 |
| KR | 2012-0149485     | 2012-12-20 | 1463218          | 2014-11-12 |
| US | 14/108919        | 2013-12-17 | 9201459          | 2015-12-01 |
| KR | 2012-0149857     | 2012-12-20 | 1459348          | 2014-11-03 |
| KR | 2012-0137636     | 2012-11-30 | 1467867          | 2014-11-26 |
| KR | 2012-0074731     | 2012-07-09 | 1453345          | 2014-10-15 |
| KR | 2012-0096077     | 2012-08-31 | 1523602          | 2015-05-21 |
| KR | 2012-0020997     | 2012-02-29 | 1318572          | 2013-10-08 |
| KR | 2012-0021485     | 2012-02-29 | 1345943          | 2013-12-20 |
| KR | 2012-0025336     | 2012-03-13 | 1325840          | 2013-10-30 |
| KR | 2004-0108338     | 2004-12-18 | 688295           | 2007-02-22 |
| KR | 2004-0003176     | 2004-01-16 | 604543           | 2006-07-18 |
| DE | 05000602.2       | 2005-01-13 | 1555841          | 2008-04-16 |
| FR | 05000602.2       | 2005-01-13 | 1555841          | 2008-04-16 |
| GB | 05000602.2       | 2005-01-13 | 1555841          | 2008-04-16 |
| CN | 200510054201.0   | 2005-01-14 | ZL200510054201.0 | 2008-01-16 |
| KR | 20130111582      | 2013-09-17 |                  |            |
| KR | 20130111581      | 2013-09-17 |                  |            |
| CN | 200510087453.3   | 2005-07-22 | ZL200510087453.3 | 2009-05-06 |
| CN | 200510121774.0   | 2005-12-29 | ZL200510121774.0 | 2008-12-17 |
| MX | MX/F/2007/001329 | 2007-06-22 | 26637            | 2008-08-21 |
| MX | MX/F/2007/001381 | 2007-06-29 | 26099            | 2008-06-23 |
| MY | P196002828       | 1996-07-09 | MY-121607-A      | 2006-02-28 |
| US | 10/983,986       | 2004-11-08 | 7706331          | 2010-04-27 |
| US | 12/724,049       | 2010-03-15 | 8098634          | 2012-01-17 |

**PATENT**  
**REEL: 052662 FRAME: 0637**

|    |              |            |              |            |
|----|--------------|------------|--------------|------------|
| CN | 2004192925   | 2004-11-11 | 100382649    |            |
| HK | HK1077961A1  | 2005-11-01 |              |            |
| US | 13/504,898   | 2012-04-27 | 8699618      | 2014-04-15 |
| KR | 2009-0105217 | 2009-11-02 | 1668601      | 2016-10-18 |
| RU | 2602119703   | 2002-07-24 | 2248667      | 2008-09-16 |
| US | 09/782568    | 2001-02-13 | 6778606      | 2004-08-17 |
| US | 09/731197    | 2000-12-06 | 6792163      | 2004-09-14 |
| US | 09/769068    | 2001-01-24 | 6662153      | 2003-12-09 |
| US | 09/751302    | 2000-12-28 | 6741960      | 2004-05-25 |
| US | 09/729559    | 2000-12-04 | 6892220      | 2005-05-10 |
| US | 10/185120    | 2002-06-27 | 7020495      | 2006-03-28 |
| HK | 03100136.2   | 2003-01-07 | 1048035      | 2005-05-13 |
| GB | 12168788.3   | 2012-05-22 | 2562673      | 2016-07-13 |
| FR | 12168788.3   | 2012-05-22 | 2562673      | 2016-07-13 |
| US | 12/437006    | 2009-05-07 | 8300600      | 2012-10-30 |
| US | 09/846951    | 2001-05-01 | 6810071      | 2004-10-26 |
| US | 10/334554    | 2002-12-30 | 6692275      | 2004-02-17 |
| US | 10/324753    | 2002-12-19 | 6788028      | 2004-09-07 |
| US | 09/518400    | 2000-03-03 | 6549761      | 2003-04-15 |
| US | 09/515423    | 2000-02-29 | 6393280      | 2002-05-21 |
| HK | 06100917.4   | 2006-01-20 | 1081027      | 2009-07-31 |
| BR | DI6603308.0  | 2006-08-30 | DI6603308.0  | 2007-01-02 |
| US | 10/297108    | 2002-11-27 | 6993329      | 2006-01-31 |
| CN | 01812184.5   | 2003-01-10 | ZL01812184.5 | 2005-11-09 |
| HK | 04100560.6   | 2004-01-28 | 1057828      | 2006-01-20 |
| US | 09/808627    | 2001-03-14 | 7020194      | 2006-03-28 |
| US | 09/728450    | 2000-12-01 | 6754667      | 2004-06-22 |

RECORDED: 05/14/2020

PATENT  
REEL: 052662 FRAME: 0638