

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE:                                                                                                                                                                                                                                                                                                                                                                                                        | NEW ASSIGNMENT                   |               |                     |                     |                                  |             |            |                |                   |              |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------|---------------------|---------------------|----------------------------------|-------------|------------|----------------|-------------------|--------------|------------|
| NATURE OF CONVEYANCE:                                                                                                                                                                                                                                                                                                                                                                                                   | ASSIGNMENT                       |               |                     |                     |                                  |             |            |                |                   |              |            |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                                                                                                                                                                                                                                             |                                  |               |                     |                     |                                  |             |            |                |                   |              |            |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jonghye HAN</td> <td>08/25/2010</td> </tr> <tr> <td>Inhaeng CHO</td> <td>08/25/2010</td> </tr> <tr> <td>Phaljin LEE</td> <td>08/25/2010</td> </tr> <tr> <td>Hojjin JEONG</td> <td>08/25/2010</td> </tr> </tbody> </table> |                                  | Name          | Execution Date      | Jonghye HAN         | 08/25/2010                       | Inhaeng CHO | 08/25/2010 | Phaljin LEE    | 08/25/2010        | Hojjin JEONG | 08/25/2010 |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                    | Execution Date                   |               |                     |                     |                                  |             |            |                |                   |              |            |
| Jonghye HAN                                                                                                                                                                                                                                                                                                                                                                                                             | 08/25/2010                       |               |                     |                     |                                  |             |            |                |                   |              |            |
| Inhaeng CHO                                                                                                                                                                                                                                                                                                                                                                                                             | 08/25/2010                       |               |                     |                     |                                  |             |            |                |                   |              |            |
| Phaljin LEE                                                                                                                                                                                                                                                                                                                                                                                                             | 08/25/2010                       |               |                     |                     |                                  |             |            |                |                   |              |            |
| Hojjin JEONG                                                                                                                                                                                                                                                                                                                                                                                                            | 08/25/2010                       |               |                     |                     |                                  |             |            |                |                   |              |            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                                                                                                                                                                                                                                             |                                  |               |                     |                     |                                  |             |            |                |                   |              |            |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>LG Electronics Inc.</td> </tr> <tr> <td>Street Address:</td> <td>20 Yeouido-dong, Yeongdeungpo-gu</td> </tr> <tr> <td>City:</td> <td>Seoul</td> </tr> <tr> <td>State/Country:</td> <td>REPUBLIC OF KOREA</td> </tr> <tr> <td>Postal Code:</td> <td>150-721</td> </tr> </table>                           |                                  | Name:         | LG Electronics Inc. | Street Address:     | 20 Yeouido-dong, Yeongdeungpo-gu | City:       | Seoul      | State/Country: | REPUBLIC OF KOREA | Postal Code: | 150-721    |
| Name:                                                                                                                                                                                                                                                                                                                                                                                                                   | LG Electronics Inc.              |               |                     |                     |                                  |             |            |                |                   |              |            |
| Street Address:                                                                                                                                                                                                                                                                                                                                                                                                         | 20 Yeouido-dong, Yeongdeungpo-gu |               |                     |                     |                                  |             |            |                |                   |              |            |
| City:                                                                                                                                                                                                                                                                                                                                                                                                                   | Seoul                            |               |                     |                     |                                  |             |            |                |                   |              |            |
| State/Country:                                                                                                                                                                                                                                                                                                                                                                                                          | REPUBLIC OF KOREA                |               |                     |                     |                                  |             |            |                |                   |              |            |
| Postal Code:                                                                                                                                                                                                                                                                                                                                                                                                            | 150-721                          |               |                     |                     |                                  |             |            |                |                   |              |            |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                                                                                                                                                                                                                                        |                                  |               |                     |                     |                                  |             |            |                |                   |              |            |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12846040</td> </tr> </tbody> </table>                                                                                                                                                       |                                  | Property Type | Number              | Application Number: | 12846040                         |             |            |                |                   |              |            |
| Property Type                                                                                                                                                                                                                                                                                                                                                                                                           | Number                           |               |                     |                     |                                  |             |            |                |                   |              |            |
| Application Number:                                                                                                                                                                                                                                                                                                                                                                                                     | 12846040                         |               |                     |                     |                                  |             |            |                |                   |              |            |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                                                                                                                                                                                                                                              |                                  |               |                     |                     |                                  |             |            |                |                   |              |            |
| <p>Fax Number: (703)766-3644</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 703-766-3777</p> <p>Email: tlg@ked-iplaw.com</p> <p>Correspondent Name: KED &amp; ASSOCIATES, LLP</p> <p>Address Line 1: P.O. Box 221200</p> <p>Address Line 4: Chantilly, VIRGINIA 20153-1200</p>                                                                               |                                  |               |                     |                     |                                  |             |            |                |                   |              |            |
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                                                                                                                                                                                                                 | PBC-0229                         |               |                     |                     |                                  |             |            |                |                   |              |            |
| NAME OF SUBMITTER:                                                                                                                                                                                                                                                                                                                                                                                                      | Carol L. Druzbeck                |               |                     |                     |                                  |             |            |                |                   |              |            |
| <p>Total Attachments: 1</p> <p>source=PBC0229Assignment#page1.tif</p>                                                                                                                                                                                                                                                                                                                                                   |                                  |               |                     |                     |                                  |             |            |                |                   |              |            |

OP \$40.00 12846040

**PATENT**

501350471

REEL: 025364 FRAME: 0345

**ASSIGNMENT**

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

(1) Jonghye HAN (4) Hoijin JEONG  
 (2) Inhaeng CHO (5) \_\_\_\_\_  
 (3) Phaljin LEE (6) \_\_\_\_\_

who have made a certain new and useful invention, hereby sell, assign and transfer unto

**LG ELECTRONICS INC.**

**20 Yeouido-dong, Yeongdeungpo-gu**

**Seoul 150-721 Republic of Korea**

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 101 in the invention entitled

**DIAGNOSTIC SYSTEM AND METHOD FOR HOME APPLIANCE**

(a) for which an application for United States Letters Patent was filed on July 29, 2010, and identified by United States Serial No. 12/846,040; or

(b) for which an application for United States Letters Patent was executed on \_\_\_\_\_

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and/or that claim priority thereto and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof and/or that claim priority thereto, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE.

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention, and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

AND the undersigned hereby grants the firm of KUD & ASSOCIATES, LLP the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of any issuing authority, including the United States Patent and Trademark Office, for recordation of this document.

SIGNED on the dates indicated beside our signatures:

INVENTORS

DATE SIGNED

|                                       |                            |
|---------------------------------------|----------------------------|
| 1) _____<br>Name: <b>Jonghye HAN</b>  | _____ <u>Aug. 31, 2010</u> |
| 2) _____<br>Name: <b>Inhaeng CHO</b>  | _____ <u>Aug. 27, 2010</u> |
| 3) _____<br>Name: <b>Phaljin LEE</b>  | _____ <u>Aug. 28, 2010</u> |
| 4) _____<br>Name: <b>Hoijin JEONG</b> | _____ <u>Aug. 27, 2010</u> |
| 5) _____<br>Name: _____               | _____                      |
| 6) _____<br>Name: _____               | _____                      |

**PATENT**