

# PATENT ASSIGNMENT

Electronic Version v1.1  
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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>              |
| Li-Hsiang Sun                                                                                                 | 12/28/2009                         |
| Dongwook Roh                                                                                                  | 12/28/2009                         |
| <b>RECEIVING PARTY DATA</b>                                                                                   |                                    |
| <b>Name:</b>                                                                                                  | LG Electronics Inc.                |
| <b>Street Address:</b>                                                                                        | 20, Yoido-dong, Yongdungpo-gu      |
| <b>City:</b>                                                                                                  | Seoul, 150-721                     |
| <b>State/Country:</b>                                                                                         | REPUBLIC OF KOREA                  |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                              |                                    |
| <b>Property Type</b>                                                                                          | <b>Number</b>                      |
| <b>Application Number:</b>                                                                                    | 12649082                           |
| <b>CORRESPONDENCE DATA</b>                                                                                    |                                    |
| <b>Fax Number:</b>                                                                                            | (213)623-2211                      |
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| <b>Address Line 4:</b>                                                                                        | LOS ANGELES, CALIFORNIA 90017      |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                | 2101-3670                          |
| <b>NAME OF SUBMITTER:</b>                                                                                     | Sevan Savsa                        |
| <b>Total Attachments: 2</b><br>source=Assignment-2101-3670#page1.tif<br>source=Assignment-2101-3670#page2.tif |                                    |

CH \$40.00 12649082

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**PATENT**  
**REEL: 023714 FRAME: 0899**

RECORDATION FORM COVER LETTER  
**PATENTS ONLY**

Docket No.: 2101-3670

To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party **Li-Hsiang Sun and Dongwook Roh**  
2. Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies):

**LG ELECTRONICS INC.**  
20, Yoido-dong, Yongdungpo-gu  
Seoul, 150-721, Republic of Korea

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

Additional name(s) & address(es) attached? ☐ Yes ☒ No

Execution Date: **December 28, 2009**

4. Application number(s) or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s) **12/649,082**

B. Patent No.(s) **N/A**

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

**JONATHAN Y. KANG, ESQ.**  
**LEE, HONG, DEGERMAN, KANG & WAIMEY**  
660 South Figueroa Street  
Suite 2300  
Los Angeles, CA 90017

6. Total number of applications and patents involved: [ **1** ]

7. Total fee (37 CFR 3.41) **\$40**

- ☐ Enclosed  
☒ Authorized to be charged to deposit account

8. Deposit account number: **502290**

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.*

Date: **December 29, 2009**

/Sevan Savsa/

**Sevan Savsa, Reg. No. 61,718**

OMB No. 0651-0011 (exp. 4/94)

Mail documents to be recorded with required cover sheet information to:

**Mail Stop Assignment Recordation Services**  
**Director of the U.S. Patent and Trademark Office**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

# ASSIGNMENT

(1-8) *Insert Name(s) of Inventor(s)*

(1) Li-Hsiang SUN (5)  
 (2) Dongwook ROH (6)  
 (3) (7)  
 (4) (8)

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) *Insert name of Assignee*

(9) LG Electronics Inc.

(10) *Insert state of Incorporation of Assignee*

(10) Republic of Korea

(11) *Insert address of Assignee*

(11) 20, Yoido-dong, Yongdungpo-gu, Seoul, 150-721, Republic of Korea (hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as

(12) *Insert identification of Invention, such as Title, Case Number or Foreign Application Number*

(12) **CONTROL CHANNEL DETECTION FOR MULTIPLE IMPLICIT IDENTIFIERS**

for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

(13) *Insert Date of Signing of Application*

(13)

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

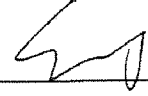
3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

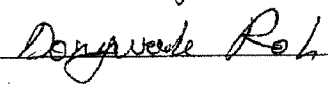
5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.

The undersigned hereby appoints **the Attorneys associated with Customer No. 035884** the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: 12/28/2009

Signature of Inventor (1) 

Date: Dec 28, 2009

Signature of Inventor (2) 

PATENT

RECORDED: 12/29/2009

REEL: 023714 FRAME: 0901