

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Kyunghwan KIM</td> <td>04/16/2012</td> </tr> <tr> <td>Hanyoung KO</td> <td>04/02/2012</td> </tr> <tr> <td>Joomin KIM</td> <td>04/02/2012</td> </tr> <tr> <td>Sungmin BAEK</td> <td>04/02/2012</td> </tr> </tbody> </table>		Name	Execution Date	Kyunghwan KIM	04/16/2012	Hanyoung KO	04/02/2012	Joomin KIM	04/02/2012	Sungmin BAEK	04/02/2012
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Kyunghwan KIM	04/16/2012										
Hanyoung KO	04/02/2012										
Joomin KIM	04/02/2012										
Sungmin BAEK	04/02/2012										
RECEIVING PARTY DATA											
Name:	LG Electronics Inc.										
Street Address:	20, Yeouido-dong, Yeongdeungpo-gu										
City:	Seoul										
State/Country:	KOREA, REPUBLIC OF										
Postal Code:	150-721										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13541869</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13541869						
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Application Number:	13541869										
CORRESPONDENCE DATA											
Fax Number:	(877)769-7945										
Phone:	(202) 783-5070										
Email:	apsi@fr.com										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name:	W. Karl Renner										
Address Line 1:	FISH & RICHARDSON P.C.										
Address Line 2:	P.O.BOX 1022										
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022										
ATTORNEY DOCKET NUMBER:	20211-0171001										
NAME OF SUBMITTER:	Sharon M. Allen										
Total Attachments: 3 source=20211-0171001 Assignment #page1.tif source=20211-0171001 Assignment #page2.tif source=20211-0171001 Assignment #page3.tif											

CH \$40.00 13541869


ASSIGNMENT

For valuable consideration, we, Kyunghwan KIM of LG ELECTRONICS INC.IP GROUP 16 Woomyeon-Dong, Seocho-Gu, Seoul, 137-724, Korea, Hanyoung KO of LG ELECTRONICS INC.IP GROUP 16 Woomyeon-Dong, Seocho-Gu, Seoul, 137-724, Korea, Joomin KIM of LG ELECTRONICS INC.IP GROUP 16 Woomyeon-Dong, Seocho-Gu, Seoul, 137-724, Korea, Sungmin BAEK of LG ELECTRONICS INC.IP GROUP 16 Woomyeon-Dong, Seocho-Gu, Seoul, 137-724, Korea, hereby assign to: LG Electronics Inc., a corporation of Republic of Korea having a place of business at: 20, Yeouido-dong, Yeongdeungpo-gu, Seoul, 150-721 Republic of Korea; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled **ELECTRONIC DEVICE AND SERVER, AND METHODS OF CONTROLLING THE ELECTRONIC DEVICE AND SERVER**

, filed July 5, 2012 and assigned U.S. Serial Number 13/541,869, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

OPP-2011-0444-US (LG: 11FCIT028US03)



Kyunghwan KIM

Date: 2012 / 04 / 16

Hanyoung KO

Date:

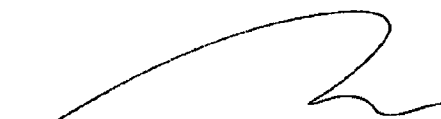
Joomin KIM


Date:


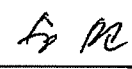
Sungmin BAEK

Date:

Kyunghwan KIM \_\_\_\_\_ Date: \_\_\_\_\_

  
Hanyoung KO \_\_\_\_\_ Date: 2012/04/02

  
Joomin KIM \_\_\_\_\_ Date: 2012/04/02

   
Sungmin BAEK \_\_\_\_\_ Date: 2012/04/02