#### 503123239 01/05/2015

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

### **CONVEYING PARTY DATA**

Name	Execution Date
JAEMYUNG CHIN	12/09/2014
SUNGHO CHOI	12/09/2014
YOONGHO JUNG	11/27/2014

### **RECEIVING PARTY DATA**

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City:	BUSAN	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	609-735	

## **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	14553638	

### CORRESPONDENCE DATA

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**ATTORNEY DOCKET NUMBER:** K-1704

NAME OF SUBMITTER: PAUL H. KANG

> **PATENT** REEL: 034635 FRAME: 0591

503123239

SIGNATURE:	/Paul H. KANG/	
DATE SIGNED:	01/05/2015	
Total Attachments: 2		
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PATENT REEL: 034635 FRAME: 0592 Docker No.: <u>K-1704</u>

#### **ASSIGNMENT**

In consideration of the premises and other gu officiency of which is hereby acknowledged, the undersign	gned,	
1) Jaemyung CHIN	(4)	
2) Sungho CHOI		
3) Yoongho JUNG	(6)	Andrew Marie Communication of the Communication of
tho have made a certain new and useful invention, hereb	y sell, assign and transfer un	to
LG ELEC	TRONICS INC.	
128, Yeoui-daer	o, Yeongdeungpo-gu Republic of Korca and	
PUSAN NATIONAL UNIVERSITY INDUST	F - ** 21	RATION FOUNDATION
Pusan National University, 2, Busandach	ang-ro 63(yuksipsam)b 5. Republic of Korea	eon-gil, Geumjeong-gu
ts successors and assigns (hereinafter designated "ASSIC America as defined in 35 U.S.C. 100 in the invention of	SNEE") the entire right, titl	e and interest for the United States
a) for which an application for United States Letters Par	APPLIANCE tens was filed on November 2	5, 2014, and identified by United
states Secial No. <u>i4/553,634</u> , or b) for which an application for United States Letters Pa	tent was executed on	· - <u>/</u>
and the undersigned hereby authorize and request the L my and all United States Letters Patent which may be greatensions, divisions, religious, so beginning the property of the In- property thereto, and the right to all benefits under the In- the Life ASSIGNED.	inited States Commissioner and/or that continuations, or continuations, or continuation for the transfer and leaves and l	of Patents and Trademarks to issue laim priority thereto and any and all s-in-part thereof and/or that claim he Profection of Industrial Property gal representatives; the undersigned
igree that the attorneys of record in said application shall	I hereafter act on benait of st	nu Assiciate, er all necessary assistance in making
application for and obtaining original, divisional, reissue of the said ASSIGNEE, its successors, assigns and legal improvements, and applications for patent based thereor any papers by the said ASSIGNEE, its successors, assignally protection and title in and to the invention hereby to	it or extended Letters Fateri representatives, and without n, growing out of or related t ins and legal representatives	further remaineration, in and to any to the sald invention; and to execute
AND the undersigned hereby grants the firm assignment any further identification that may be necessauthority, including the United States Patent and Traden	of KED & ASSOCIATES	combia mitu tue totes of any mount
SIGNED on the dates indicated aside our signatures:		
INVENTORS	I	DATE SIGNED
" WITE		2014, 12.9
Name: Jaemyung CHIN		
		2014 12.9
2)		
Name: Sungho CHOI		
3)	engendagisch hillinger zur vor der	
Name: Yoongho JUNG		
4)	HR affic ables a many sequences in	and the same of th
Name:		
5) Name;	ngapranganasian nga kepangana	MECHANICAN AND AND AND AND AND AND AND AND AND A
Name:	- The state of the	
grant of the state		

PATENT REEL: 034635 FRAME: 0593

K-1704 Docket No.: 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) Jaemyung CHIN (2) Sungho CHOI (3) Yoongho JUNG who have made a certain new and useful invention, hereby sell, assign and transfer unto LG ELECTRONICS INC. 128, Yeoui-daero, Yeongdeungpo-gu Seoul, 150-721 Republic of Korea PUSAN NATIONAL UNIVERSITY INDUSTRY-UNIVERSITY COOPERATION FOUNDATION Pusan National University, 2, Busandaehang-ro 63(yuksipsam)beon-gil, Geumjeong-gu Busan, 609-735, 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. 100 in the invention entitled HOME APPLIANCE (a) for which an application for United States Letters Patent was filed on November 25, 2014, and identified by United States Serial No. 14/553.638 ; 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 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 KED & 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 aside our signatures: DATE SIGNED INVENTORS 1) Name: Jaemyung CHIN

> PATENT REEL: 034635 FRAME: 0594

Jou 27 2014

2)

4)

5)

6)

Name:

Name:

Name:

Name: Sungho CHOI