U.S. PTO 29/300098 02/20/2008

Form PTO-1595 (Rev. 08/05) U.S. DEPARTMENT OF COMMERCE OMB No. 0651-0027 (exp. 6/30/2008) 03-03-2008 United States Patent and Trademark Office To the Director of the U.S. Patent and 103485534 ocuments or the new address(es) below. 1. Name of conveying party(ies): د. Name and address of receiving party(ies) Kyung Min Hong and Kyoung Joung Kim Name: LG Electronics Inc. Internal Address: Additional name(s) of conveying party(ies) attached? X No Street Address: 3. Nature of conveyance/Execution Date(s): 20 Yoido-dong, Yongdungpo-gu Execution Date(s): February 20, 2008 x Assignment Merger Change of Name Security Agreement Joint Research Agreement City: Government Interest Assignment State: Executive Order 9424, Confirmatory License Country: Republic of Korea 150-721 Additional name(s) & address(es) x No attached? 4. Application or patent number(s): x This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) This application Additional numbers attached? 5. Name and address to whom correspondence 6. Total number of applications and concerning document should be mailed: patents involved: Name: Robert J. Gaybrick MORGAN LEWIS & BOCKIUS LLP 7. Total fee (37 CFR 1.21(h) & 3.41) \$ Internal Address: Atty. Dkt.: 041993-7005US Authorized to be charged by credit card Street Address: 1111 Pennsylvania Ave NW Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) Washington 8. Payment Information City: 20004 Last 4 Numbers DC Zip: a. Credit Card State: **Expiration Date** (202) 739-3000 Phone Number: 50-0310 b. Deposit Account Number (202) 739-3001 Fax Number: Authorized User Name Robert J. Goodell patents@morganlewis.com Email Address: 9. Signature: February 20, 2008 Signature Total number of pages including cover Robert J. Goodell - 41,040

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sheet, attachments, and documents:

Name of Person Signing

ATTORNEY DOCKET NO.: 041993-7005 SOLE/JOINT INVENTION (U.S. Rights Only)

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

for which I/WE executed an application for Unite application for United States Letters Patent on		
WHEREAS, LG ELECTRONICS INC., a office address is 20 Yoido-dong, Yongdungpo-gu desirous of securing the entire right, title, and inte States Letters Patent on this invention and the Let	i, Seoul, Korea (hereinafter referred to erest in and to this invention, the applic	as Assignee), is cation for United
NOW THEREFORE, be it known that, for from assignee is hereby acknowledged, I/WE, as a over, and do hereby sell, assign, transfer, and set of MY/OUR entire right, title, and interest in and to continuations thereof, and all Letters Patent of the reissues thereof; and I/WE hereby authorize and rethe United States to issue all Letters Patent for this accordance with the terms of this Assignment;	assignor(s), have sold, assigned, transfover unto the assignee, its lawful succethis invention and this application, and United States which may be granted trequest the Commissioner of Patents are	erred, and set essors and assigns, I all divisions, and thereon, and all and Trademarks of
AND, I/WE HEREBY further covenant as communicate with assignee, its successors and assigneention and testify in any legal proceeding, sign and deliver all papers that may be necessary or deassignee, its successors and assigns, execute all diall rightful oaths and generally do everything possand enforce proper patent protection for this inventagence incident to the execution of such papers sassigns.	signs, any facts known to ME/US responsible to perfect the title to this inventivisional, continuation, and reissue apposible to aid assignee, its successors and attion in the United States, it being under	ecting this do so, execute tion in said dications, make assigns, to obtain erstood that any
AND, I/WE HEREBY authorize and requand Power of Attorney in this application, to inser February 20, 2008) the filing date and application	nt here in parenthesis (Application No.	, filed
IN TESTIMONY WHEREOF, I'WE have		
profit Marile of Sole of 1 has the great	ssignor's Signature Mand	Date February 20. 2018
Kyung Min HONG Address 613-902, LG 6 Cha Village, Sungbok-dong,	Suji-gu, Yongin-shi,	Citizenship
Gyeonggi-do 448-981 Korea		Republic of Korea
Healt Mame of Record Wasigner	ssignor's Signature Kyong Jung KIM	February 20,200
Kyoung Joung KIM Address #202, 926-7, Daechi-dong, Gangnam-gu, S	Seoul 135-280 Korea	Citizenship Republic of Korea
Names of additional inventors attached Yes	⊠ No	

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PATENT REEL: 020596 FRAME: 0410