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To the Director		atent a	nd Trad

Name of Person Signing



	U.S. DEPARTMENT OF COMMERCE	
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Name of conveying parties: 1. (1) Tae-Ho KIM (2) Young-Keun LEE (3) Chang-Hwan HWANG Name and Address of receiving party: SAMSUNG ELECTRONICS CO., LTD. 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742 Republic of Korea Nature of conveyance: Assignment Merger Security Agreement Change of Name Other: Execution Dates: (1) August 25, 2009, (2) August 27, 2009, and (3) August 25, 2009 Application number(s) or patent number(s): ☐ This document is being filed together with a new application. ☐ This document is being filed after filing of the application: (a) (b) Patent No(s)., issued. 5. STAAS & HALSEY LLP

Patent Application No(s) 29/342,842, filed September 2, 2009; or Name and address of party to whom correspondence concerning document should be mailed: Our Docket: 1860.1550 Attention: Sang Chul Kwon 1201 New York Ave., N.W., Suite 700 Washington, D.C. 20005 6. Total number of applications and patents involved: __1 Total fee (37 CFR 3.41).....(\$ 40.00 per Patent or Application in Assignment) 7. **Enclosed** M Authorized to be charged to deposit account. 8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account) (Attach duplicate copy of this page if paying by deposit account) Sang Chul Kwon, Registration No. 63,153 September 3, 2009

> Total number of pages including cover sheet: 2 DO NOT USE THIS SPACE

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PATENT REEL: 023209 FRAME: 0667

Docket No. 1860.1550

U.S. ASSIGNMENT

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IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by

(Insert Name(s) & Address(es) of ASSIGNEE(S))

SAMSUNG ELECTRONICS CO., LTD. 416, Maetan-dong, Yeongtong-gu,

Suwon-si, Gyeonggi-do 443-742 Republic of Korea	
(hereinafter, "ASSIGNEE"), the receipt of which is hereb transfers to ASSIGNEE the entire and exclusive right, titl (Title of Invention)	y acknowledged, the undersigned ASSIGNOR hereby sells, assigns and le and interest to the invention entitled
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relating to International Patent Application PCT/KR	
(a) executed on ;	(Insert date of execution of application, if not concurrent)
(b) filed on , Serial No. Not Yet Assigned ;	Any registered attorney of STAAS & HALSEY LLP, 1201 New York Avenue, N.W., Suite 700 Weshington, D.C. 20005 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.
substitute, reissue or reexamination application based the granted and including any extensions thereof (collective) The ASSIGNOR agree(s), when requested by to do all acts which the ASSIGNEE may deem necessary said invention, including in the preparation and prosecution interference, reissue, reexamination, or public use process.	ited States granted on said application and any continuation, division, renewal, lereon, for the full term or terms for which the said Letters Patent(s) may be y, hereinafter, "said application(s) and Letters Patent(s)"). said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, desirable or expedient, for securing, maintaining and enforcing protection for ion of said application(s) and the issuance of said Letters Patent(s), in any eding, and in any litigation or other legal proceeding which may arise or be the limited to executing all papers, including separate assignments and attimony, and obtaining and producing evidence.
IN WITNESS WHEREOF, the undersigned inventor(s (Typed Name & Signature of Inventor(s))	i) has (have) affixed his/her/their signature(s). (Date) (Typed Name & Signature of Witness(es))
Tae-Ho KIM 2) Lee Cone Cem Young-Keun LEE 3) Chang-Hwan HWANG 4) 5)	August 201. and Injust 15, 2019
6)	

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