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U.S.	DEPARTMEN	IT OF CO	MMERCE

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To the Director of the U.S. Patent and Trade

103513639

1. Name of conveying party(ies): Hwa-sup LIM Jae-Young SIM Do-Kyoon KIM Kee-chang LEE

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

> SAMSUNG ELECTRONICS CO., LTD. 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do Republic of Korea

	Nopublic of Notes
3.	Nature of conveyance: X Assignment
4.	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:
5.	Name and address of party to whom correspondence concerning document should be mailed: STAAS & HALSEY LLP Our Docket: 1901.1305 Attention: Gene M. Garner, II 1201 New York Ave., N.W., Suite 700 Washington, D.C. 20005
6.	Total number of applications and patents involved:1
7.	Total fee (37 CFR 3.41) (\$ 40.00 per Patent or Application in Assignment) ☑ Enclosed ☐ 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)
Gene	M. Garner, II, Reg. No. 34,172 July 2, 2008
Name	of Person Signing Signature Date

Total number of pages including cover sheet: 2
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PATENT REEL: 021246 FRAME: 0120

U.S. ASSIGNMENT

BALL MIN

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

SAMSUNG ELECTRONICS CO., LTD. 416, Mastan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do Republic of Korea

(nerematter, "ASSIGNEE"), the receipt of which is hereby solonowiedged, the undersigned ASSIGNOR hereby selle, essigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention antitied

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releti was d	relating to international Patent Application PCT/JP and/or for which application for Letters Patent of the United State was executed on even date herewith or, it not so executed, was:					
(a)	executed on ;	(insert date of execution of application, if not concurrent)				
(b)	filed on .	Any registered attorney of STAAS & HALSEY UP, 1201 New York Avenue, N.W., Suite 700 Washington, D. C. 20005 (202/434-1500) is	l			
Ser	kal No. ;	hereby authorized to insert in (b) the apacified data, when known.				

and to said application and all Latters Potent(s) of the United States granted on said application and any continuation, division, renewal, substitute, relastic or recommination application based thereon, for the full term or terms for which the said Letters Potent(s) may be granted and including any extensions thereof (collectively, hereinsfier, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by eald ASSIGNEE and without charge to but at the expense of eald ABSIGNEE, to do all acts which the ASSIGNEE may deem recessery, destrable or expedient, for escuring, maintaining and enforcing protection for eald hydration, including in the preparation and prosecution of said application(s) and the issuence of said Letters Patent(s), in any interference, release, resummentain, or public use proceeding, and in any highlan or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all righthi eaths, providing event assignments and declarations. taking all righthi eaths, providing event assignments and declarations.

(Typed Name & Signature of Invi	Heighed inventor(s) tizz (navę) মান্তচ্চ চাল্যান্ডাসোভা অনুদায়ান্দ্র্যা। ntor(e)) (Dais) (Typed Name & Signature of Witness(as
1) Ear	26/June/2008
Hwa-sup -fpd	26/June/2008
Jido-yolung Sily	26/June/2008
Do-kyoffi Kilil 4)	26/June/2008
Kee-chang LEE	
8)	
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PATENT REEL: 021246 FRAME: 0121

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