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Form PTO-1595 (Rev. 6-12) DMB No. 0651-0027 (exp. 04/30/2015)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office		
RECORDATION FOR			
PATENTS To the Director of the U.S. Patent and Trademark Office: Please	se record the attached documents or the new address(es) below.		
Name of conveying party(ies):	2. Name and address of receiving party(ies)		
Hong-Pyo HEO			
· · · · · · · · · · · · · · · · · · ·	Name: Samsung Electronics Co., Ltd.		
Additional name(s) of conveying party(ies) attached? Yes X No	Internal Address: Street Address:		
3. Nature of conveyance/Execution Date(s):			
Execution Date(s): February 13, 2013	129, Samsung-ro, Yeongtong-gu		
X Assignment Merger Change of Name			
Security Agreement Joint Research Agreement	City: Suwon-Si, Gyeonggi-Do		
Government Interest Assignment	State:		
Executive Order 9424, Confirmatory License	Country: Republic of Korea Zip: 443-742		
Other	Additional name(s) & address(es) Yes X No attached?		
Additional numbers attached? 5. Name and address to whom correspondence concerning document should be mailed: Name: John A. Castellano HARNESS, DICKEY & PIERCE, P.L.C. Internal Address: Atty. Dkt.: 2557-001903/US Street Address: P.O. Box 8910	Yes X No 6. Total number of applications and patents involved: 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 X Authorized to be charged to deposit account		
City: Reston	Enclosed None required (government interest not affecting title) 8. Payment Information		
City: Reston State: VA Zip: 20195	or aynon morniagon		
Phone Number: (703) 668-8000			
Fax Number: (703) 668-8200	Deposit Account Number 08-0750		
Email Address: dcmailroom@hdp.com	Authorized User Name John A. Castellano		
9. Signature: Signatule	March 15, 2013 Date		
John A. Castellano - \$5,094 Name of Person Signing	Total number of pages including cover sheet, attachments, and documents: 5		
Documents to be recorded (including cover sh	ieet) should be faxed to (571) 273-0140, or mailed to:		

PATENT

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SAMSUNG ELECTRONICS CO., LTD.

COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM¹

The undersigned acknowledges that this document is being used both as an assignment of				
the invention and as the declaration (37 CFR 1.63) for a Utility or Design Application.				
WHERE	AS, the unde	ersigned, hereinafter referr	ed to collectively as A	ssignor, has invented:
Title:	HIGH ELECT	TRON MOBILITY TRANSIST		
for whi	ch Assignor i	s about to make or has ma	de United States or In	ternational application
for pate	ent.			
WHERE	AS, as a belo	w named inventor(s), I/(we	e) hereby declare that	;
Section	I. Declarati	on		
This dec	claration is d	rected to:		
	∑ The a	attached U.S. non-provision	nal patent application	, or
Congrave	U.S. r	on-provisional patent appl	ication number or	, filed
George and St.		nternational patent applica	tion number	filed on
The abo	ve-identified	application was made or a	authorized to be made	e by me (us).
l (we) be inventio	elieve that I a n in the abo	am (we are) the original inv ve-identified application.	entor (original joint ir	nventors) of a claimed
l (we) he punishal both.	ereby acknov ble under 18	vledge that any willful false U.S.C. 1001 by fine or imp	statement made in t risonment of not mor	his declaration is e than five (5) years, or
This for	m requires the	use of an Application Data Shee	<u>(</u> .	
SEC Ref N	vo. RI	E-201203-510-1-US0	Attorney Ref No.	2557SI-001903/US
OMBINE	ED DECLARATI	ON (37 CFR 1 63) FOR HTHIT	/ DATENT ADDITION	ARIC SECURISSESSES COMMA

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
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SAMSUNG ELECTRONICS CO., LTD.

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

Section II. Assignment

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned hereby sell(\$s) and assign(\$s) to

Samsung Electronics Co., Ltd.

having an address at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Republic of Korea, (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in Section I of this document.

Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications. patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-

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examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesald, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Section III. Inventor(s)/Assignor(s) Signature(s)

LEGAL NAME OF FIRST	Family Name	First Given Name	Second Given Name	
INVENTOR/ASSIGNOR	НЕО	Hong-pyo		
SIGNATURE	到 克伦	DATE	Feb. 13th 2413	

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SEC Ref No.	RE-201203-510-1-US0	Attorney Ref No.	2557SI-001903/US

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