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Please record the attached original documents or copy thered           1.         Name of conveying party(les):           1.         Hyo-San LEE           2.         Hoon-Joo NA				2. Name and address of receiving party:							
<b></b>	<u>3.</u> H	yung-Seok	HONG			Name:		Samsung Ele	ctronics C	o., Ltd.	
Addi	lional nan	ne(s) of cor	veying parties	attached? [	Yes 🛛 No	Internal A	dress:		y	**************************************	
3. Nature of conveyance:			Street Address: 416, Maetan-dong, Yeongtong-gu								
X	Assignr	nent		Merger		City:	Su	won-si			
J	Security	/ Agreemer	ıt 🖸	Change	of Name	State: Gye	onggi-c		South	Zip Code:	<b></b> `
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]	Executiv	ve Order 94 atory Licen	94, 🔲 se	Other:			name(s ] Yes	) & Address(e: I⊠I №		)d?	
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## ASSIGNMENT

We, Hyo-San LEE, Bo-Un YOON, Kun Tack LEE, Hag-Ju CHO, Sang-Jin HYUN, Hoon-Joo NA, Hyung-Seok HONG("Assignors"), have an interest in the invention entitled:

## ETCHANT AND METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE USING THE ETCHANT

which is the subject of a United States or International application for patent entitied above and naming the undersigned inventors

] in a Provisional Patent Application No.

I in a Non-Provisional Application along with a Declaration signed today with this assignment; I in a Non-Provisional Application where the Declaration was signed on

[x] in a Non-Provisional Application filed on <u>Harch 4, 2011</u>, and assigned Secial No. 13/040/472 or PCT International Application No.

, Heued

Semaung Electronics Co. LTD., 418, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, ("Assignee"), is desirous of acquiring Assigner's Interest in the Invention.

Assignors acknowledge receipt and adequacy of good and valuable consideration in exchange for this Assignment, and assign to Assignee and its successors in interest, the full and exclusive right; title and interest to any and all inventions, developments and improvements disclosed or described in the patent application listed above ("the invention"), in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, for the full term of the patent, including extensions of time, the same as if held by Assignor had this Assignment not been made. This Assignment includes the assignment of the right to recover for past infringements of, or liabilities for, any of the rights related to the invention.

Assignors covenant and agree to cooperate with Assignee and execute all instruments or documents Assignors covenant and agree to cooperate with Assignee and exactly an institution of occurrents requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to the following: provisional, continuation, continuation-in-part, distribution of extension of extension. Assignment covenant and excent to divisional, renewal or automitute, relative, re-examination, or extension. Assignors covenant and agree to cooperate with Assignee in any litigation regarding the invention, patents or applications regarding the invention, and render all necessary assistance deemed essential to Assignee's full protection and title in and to the invention hereby transferred without further or other compensation than that provided in this Assignment; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said

Assignors covenant that no assignment, sale or agreement or encumbrance has been or will be entered into which would conflict with this Assignment,

Assignors request the Commissioner of Patents and Trademarks to issue said Letters Patent of the

United States of America to Assignee, and request that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications, issue said Letters foreign to the Patent, Utility Model Registration or Inventor's Certificate to Assignee.

Assignors hereby grant the firm of MUIR PATENT CONSULTING, PLLC 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

Hyo.Som Lee Assignor 1: Hyo-San LEE

(aignature)

2011. Mar. 26

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Declaration
Page 4 of 4

NAME OF SIXTH INVENTOR:	on has been filed for this unsigned inventor
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Korea, 445-701 Republic of	UNG ELECTRONICS CO., LTD. Country KR
Additional inventors are being named on the suppleme	antal Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto,

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falling Address:	Intellectual Property Team, S SEMICONDUCTOR, SAMSUN San #16, Banwol-dong, Hway Korea, 445-701 Republic of K	IG ELECTRONICS CO., LTD.	Country KR

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