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Atty.	Docket	No.: 2	2421-000080/US	
			Page 1 of 1	

HEET R 103367132 To the 1. Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies) Name: SAMSUNG ELECTRONICS CO., LTD. Sang-Yong KIM, Street Address: 416 Maetan-dong, Yeongtong-gu Chang-Ki HONG, and City: Suwon-si State: Gyeonggi-do **Woo-Gwan SHIM** Country: Republic of Korea Additional name(s) of conveying party(ies) attached? YES NO 3. Nature of conveyance: Additional name(s) & address(es) attached? \(\subseteq \text{ YES \textsq NO} \) Security Agreement **X** Assignment ☐ Merger Change of Name Other: Execution Date: 12/14/2006, 10/31/2006, and 10/31/2006 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: 12/14/2006, 10/31/2006, and 10/31/2006 A. Patent Application No(s). B. Patent No.(s). Additional numbers attached? | YES | NO 5. Name and address of party to whom correspondence concerning document should be mailed: 6. Total No. of applications/patents involved: One (1) Name: HARNESS, DICKEY & PIERCE, P.L.C. 7. Total fee (37 C.F.R. § 3.41): \$40.00 Street Address: P.O. BOX 8910 Enclosed City: **RESTON** State: VA ZIP: 20195 Authorized to be charged to deposit account, if no fee attached. Country: USA 8. Deposit account number: <u>08-0750</u> (Attach triplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. John A. Castellano, Reg. No. 35,094 January 23, 2007 Name of Person Signing/Reg. No. Signature Total number of pages including cover sheet, attachments, and document:

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Atty. Dkt. No. 2421-000080/US

ASSIGNMENT

SUNG WOO

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

CLEANING SOLUTION FOR SILICON SURFACE AND METHODS OF FABRICATING SEMICONDUCTOR DEVICE USING THE SAME

			SEMICONDUCTOR DEVICE USING THE SAME			
for whi	ch Assi	gnor is	about to make or has made United States or Internationa	l application for		
	(a)	\boxtimes	executed on even date preparatory to filing (each inverthis Assignment on the same day as he/she signs the Power of Attorney);			
	(b)		executed on,; or			
	(c)		filed on, and assigned Serial No or PC Application No;	CT International		
	(d)		U.S. Patent No, issued; and			
		eonggi-c	AMSUNG ELECTRONICS Co., Ltd. of 416, Maetan-dong, lo, Republic of Korea, hereinafter referred to as Assignee perein:			
Assign States the Un describ to be h granted Assign infringe	of is here ee and i of Amel ited Sta eed in the eeld and d and so or had	eby ack its succ rica and ates, the ne afore enjoye ny exte this as of, or lice	FORE, for good and valuable consideration, the receipt nowledged, Assignor by these presents does sell, assign a essors in interest, the full and exclusive right, title and interest all foreign countries, including the right to claim priority use Paris Convention, and any foreign countries, to the said application, said application for patent and all Letters d by Assignee to the full end of the term for which said Lensions thereof as fully and entirely as the same would have signment and sale not been made, and the right to restill the formal said applications for, any of the rights relating to any of said applications.	and transfer unto lest in the United lest in the United lest in the laws of lest invention as lest lest lest lest lest lest lest les		
United continupatent purpos Letters	uested for States lation, for any reise of prosecution of the states of	for the cand in continuent seudon recting therefore	by covenants and agrees to execute all instruments or doc making and prosecution of any applications of any type of mall foreign countries including, but not limited to, a ation-in-part, divisional, renewal or substitute thereof, are nexamination, or extension thereof, and for litigation rega- title and to the said invention, the United States application, and to testify in support thereof, for the benefit of A ensation than that above set forth;	for patent in the any provisional, nd as to letters arding, or for the on for patent, or		
been c	Assign or will be	or here entere	by covenants that no assignment, sale or agreement or er is into which would conflict with this Assignment; and	ncumbrance has		
Assignor hereby requests the Commissioner of Patents and Trademarks to issue said 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 aforesaid, to Issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.						
desiral	to inse	rt on th	ted hereby grant(s) the law firm of Hamess, Dickey & Pierce his Assignment any further identification which may be n comply with the rules of the U.S. Patent and Trademan cument.	HOOMSARV OF		
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PATENT REEL: 018827 FRAME: 0654

Atty. Dkt. No. 2421-000080/US

ASSIGNMENT

Sang-Yong KIM
12/14/2006 Dated Chang-Ki HONG Dated Woo-Gwan SHIM Dated

Page 2 of 2

PATENT

REEL: 018827 FRAME: 0655

Atty. Dkt. No. 2421-000080/US

ASSIGNMENT

Sang-Yong KIM

Dated

Chang-Ki HONG

2006.10.2/

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2006.10.31

Dated

Page 2 of 2

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