3-5-10	239/285
FORM PTO-1595 (modified)	J.S. DEPARTMENT OF COMMERCE)3 - 10 - 2010 Patent and Trademark Office
MAR n 5 2nm SI PA	
ОМВ No. 0651-0011 (еж. 4/94) и	
To the Honorable Commission Patents and Trade.	103591256nal documents or copy thereof.
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
ILYONG JANG, SANGGYUN WOO, SUNGMIN HUH Additional name(s) of conveying party(ies) attached? No	Name: Samsung Electronics Co., Ltd. Internal Address: Street Address: 416 Maetan-dong, Yeongtong-gu, City: Suwon-si, Gyeonggi-do, REPUBLIC OF KOREA
	Additional name(s) & address(es) attached? No
 3. Nature of conveyance: <u>X</u> Assignment Merger Security Agreement Change of Name Other 	
Execution Date: December 17, 2009 and February 17, 2010 4. Application number(s) or patent number(s):	
	B. Patent No.(s) bers attached? <u>No</u>
 Name and address of party to whom correspondence concerning document should be mailed: Name: Eugene M. Lee Internal Address: LEE & MORSE, P.C. Street Address: <u>3141 Fairview Park Drive, Suite 500</u> City: Falls Church, State: VA ZIP: <u>22042</u> 	 Total number of applications and patents involved: <u>One</u>
	7. Total fee (37 C.F.R. 3.41) \$40.00
	 X Enclosed (PTO-2038) X Authorized to be charged to deposit account any additional fees
	8. Deposit account number: 5-01645
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document.	true and correct and any attached copy is a true copy of the original
Lilia C. Lord Name of Person Signing Attorney Docket No. 239/285	
	hments, and document: 3 pages attached, incl. cover
Commissioner of Patents &	n required cover sheet information to: Trademarks, Box Assignments a, VA. 22313 03/08/2010 SMOHAMME 00000040 12654174
	01 FC:8021 40.00 OP

PATENT REEL: 024067 FRAME: 0383

239/285 U.S. Rights-Sole or Joint

ASSIGNMENT

Name and Address of Assignee	For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto SAMSUNG ELECTRONICS CO., LTD., 416, Maetan-dong, Yeongtong-gu Suwon-si, Gyeonggi-do, Republic of Korea
	(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to

Title of	
Invention	EXTREME ULTRAVIOLET PHOTOMASK AND METHODS AND APPARATUSES
	FOR MANUFACTURING THE EXTREME ULTRAVIOLET PHOTOMASK
	as set forth in this United States Patent Application

	executed concurrently herewith
Check One	executed on
	Serial No. 12/654.194 Filed December 11, 2009

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefore or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of LEE & MORSE, P.C. the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

N	AMES AND SIGNATURES OF INVENTOR	S
Name: Ilyong JANG	Signature: 20 m B	Date: 2010, 2. M
Name: SangGyun WOO	Signature: Man	Date: 2019 2, 11
Name: Sungmin HUH	Signature:	Date:
N	AMES AND SIGNATURES OF WITNESSE	25
Name:	Signature:	Date:
Name:	Signature:	Date:

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PATENT REEL: 024067 FRAME: 0384

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	ASSIGNMENT
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	(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to
Title of Invention	EXTREME ULTRAVIOLET PHOTOMASK AND METHODS AND APPARATUSES FOR MANUFACTURING THE EXTREME ULTRAVIOLET PHOTOMASK as set forth in this United States Patent Application
	executed concurrently herewith

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	Secial No. 12/654,194 Flied Decomber 11. 2009	
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in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

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N	AMES AND SIGNATURES OF INVENTORS	5
Name: Ilyong JANG	Signature:	Date:
Name: SangGyun WOO	Signature:	Date:
Name: Sungmin HUH	Signature:	Date: 12/17/20
<u>א</u>	AMES AND SIGNAFURES OF WITNESSES	3
Name:	Signature:	Deta:
Name:	Signature:	Date:

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RECORDED: 03/05/2010