Docket No.: SEC.1530 04-05-2006 U.S. DEPARTMENT OF COMMERCE FORM PTO-1595 (Modified) RI (Rev. 03-01) Patent and Trademark Office OMB No. 0651-0027 (exp.5/31/2002) P08A/REV03 .103212124 Tab settings -> -> To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): Name of conveying party(ies): XiaoQuan WANG Name: Samsung Electronics Co., Ltd. Shigenobu MAEDA Min-Joo KIM Address: 416, Maetan-dong, Yeongtong-gu, Suwon-si Z 29-01 sy 29-01 yes ⊠ No Additional names(s) of conveying party(Nature of conveyance: ☒ Assignment Merger ☐ Change of Name City: Gyeonggi-do State/Prov.: Security Agreement Republic of Korea Other Country: ZIP: Execution Date: _3/14/06, 3/14/06, 3/22/06 ⊠ No Additional name(s) & address(es) ☐ Yes March 14, 2006, 4. Application number(s) or patent numbers(s): March 14, 2006, If this document is being filed together with a new application, the execution date of the application is: March 22, 2006 Patent Application No. Filing date B. Patent No.(s) March 29, 2006 NEW

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PATENT REEL: 017738 FRAME: 0092 VOLENTINE FRANCOS & WHITT, P.L.L.C. (9/2004)

26/06 2014 02:13 FAX 025683080

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SUNG WO

	ASSIC	GNMENT			
_	In consideration of the sum of On consideration paid to each of the und	e Dollar (\$1.00) and other good and valuable lersigned			
Insert Name(s) of	1. XiaoQuan WANG	5.			
Inventor(s)	2. Shigenobu MAEDA	6.			
	3. Min-Joo KIM	7			
	4.	8			
Insert Name(s) of	the undersigned hereby sell(s) and as				
Assignee(s) &	SAMSUNG I	ELECTRONICS CO., LTD.			
Address(es)		n-dong, Yeongtong-gu, Gyeonggi-do, Republic of Korea			
	(hereinafter designated as the Assign States as defined in 35 USC 100, in t	nee) the entire right, title and interest for the United the invention known as			
Title of Invention	MOS TRANSISTOR INCLUDING MULTI-WORK FUNCTION METAL NITRIDE GATE ELECTRODE, CMOS INTEGRATED CIRCUIT DEVICE INCLUDING SAME, AND RELATED METHODS OF MANUFACTURE				
Date of Signing of Application	for which an application for patent in	the United States of America has been executed by			
	the undersigned on March 1	4 , 2006 (03/14/06, 03/14/06, 03/22/06)			
	application and any continuing, divis	all papers necessary in connection with this sional or reissue applications thereof and also to nection with such applications as the Assignee may			
	The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuing, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.				
	The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.				
	The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.				
	The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.				

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VOLENTINE FRANCOS &	WHITT, P	L.L.C.	(9/2004)
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The undersigned hereby grant(s) the practitioners associated with the <u>CUSTOMER NUMBER 20987</u> the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

Date Mar. 14,	3006 Signature of Invento	Xiaouan Wang
Date Mar. 14,	200 6 Signature of Invento	Migenobu Maada.
		Min-Joo KIM
Date	Signature of Invento	r
Date	Signature of Invento	r
Date	Signature of Invento	r
Date	Signature of Invento	r
Date	Signature of Invento	or
witnessed by	y at least two witnesses who sign he	led that the execution by the Inventor(s) be ere. However, the current practice of the U. signment even it has not been witnessed.)

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RECORDED: 03/29/2006