ASSIGNMENT RECORDATION FO



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101924975 To the Honorable Commissioner of Patents and Trademarks: Date: December 11, 2001 Attorney Docket No. 5649-949 Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Jae-hyun Joo Samsung Electronics Co.. Ltd. Wan-don Kim 416 Maetan-dong, Paldal-gu Suwon-City, Kyungki-do Cha-young Yoo Republic of Korea Additional name(s) of conveying party(ies) attached? ____Yes __X_No 3. Nature of conveyance: X Assignment Merger Security Agreement Change of Name Other Execution Date: November 24, 2001 Additional name(s) & address(es) at ached? ___ Yes __X_ No 4. Application Serial No. 10013577 Patent No. If this document is being filed together with a new application, the execution date of the application is: November 24, 2001 Yes X No Additional numbers attached? 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: \$40.00 7. Total fee (37 CFR 3.41) X Enclosed Authorized to be charged to deposit account Robert W. Glatz Myers Bigel Sibley & Sajovec P. O. Box 37428 8. Deposit account number: 50-0220 Raleigh NC 27627 DO NOT USE THIS SPACE To the best of my knowledge and belief, the foregoing information is true and chreet and any attached copy is a true copy 9. Statement and signature of the original document. December 11, 2001 Robert W. Glatz, #36,811 Date Total number of pages including cover sheet, attachments and document: 3Signature Name of Person Signing

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ASSIGNMENT

THIS ASSIGNMENT, made by us, Jae-hyun Joo, citizen of the Republic of Korea, residing at 30-801, Eunma Apt., Daechi 2-dong, Kangnam-gu, Seoul, Republic of Korea; Wan-don Kim, citizen of the Republic of Korea, residing at 203-1103, Samho Jinduck Apt., 518, Yuljeon-dong, Jangan-gu, Suwon-city, Kyunghki-do, Republic of Korea; and Chayoung Yoo, citizen of the Republic of Korea, residing at 203-1302, LG Village, 530, Keumgok-dong, Kwonsun-gu, Suwon-city, Kyungki-do, Republic of Korea;

WITNESSETH: That,

WHEREAS, we a	re the joint inventors of certain	n new and useful impro	vements in
METHODS FOR MAN	UFACTURING SEMICON	DUCTOR DEVICES	HAVING A
METAL LAYER for wh	ich an application for United	States Letters Patent ha	s been filed, or
is being filed concurrently	y, in the United States Patent a	and Trademark Office.	We hereby
authorize and request My	ers Bigel Sibley & Sajovec, P	.A., to insert here in pa	rentheses
(Application No.	, filed) the filing (late and
application number of said	d application when known or	to file this Assignment	concurrently
with the application, and			

WHEREAS, Samsung Electronics Co., Ltd., a Korean corporation having a principal place of business at 416 Maetan-dong, Paldal-gu, Suwon-City, Kyungki-do, Republic of Korea, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer and convey unto the said assignee, its successors and assigns, the entire right, title and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

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We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to bind our heirs, legal representatives and assigns, promptly to communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns and other legal representatives.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 24th day of November, 2001.

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Jae-hyun Joo	
Wan-don K	im
Wan-don Kim	
Cha-young Y	60
Cha-young Yoo	

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