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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

R SHEET

To the Honorable Assistant Commissioner for Patents: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies) 1. Name of conveying party(ies): Kwok Fai Lai Name: Novellus Systems Additional name(s) of conveying party(ies) attached? • Yes X No Internal Address: 3. Nature of conveyance: Street Address: 3970 North First Street * Assignment Merger Security Agreement Change of Name City: San Jose State: CA ZIP: 95134 Do Other _____ Execution Date: May 21, 1998 Additional name(s) & address(es) attached? Types | No 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 A. Patent Application No.(s) B. Patent No.(s) 09/073,358 Additional numbers attached?

Yes No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: 1 concerning document should be mailed: Name: D'Alessandro & Ritchie 7. Total fee (37 CFR 3.41)......\$ 40,00 Enclosed Internal Address: Authorized to be charged to deposit account 8. Deposit Account number: Street Address: P.O. Box 640640 04-0025 City: San Jose State: CA ZIP: 95164-0640 (Attach duplicate 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 angattached copy is a true copy of the original document. Ara 1998 Tara Hayden Name of Person Signing Sighature Total number of pages including cover sheet, attachments, and document: Mail documents to be recorded with required cover sheet information to: Assistant Commissioner for Patents, Box Assignment, Washington, DC 20231 PATENT

ASSIGNMENT

WHEREAS, I, Kwok Fai Lai, a citizen of Hong Kong, residing at 959 Van Auken Circle, Palo Alto, California 94303, have invented a "APPARATUS AND METHOD FOR IMPROVING TARGET EROSION IN HOLLOW CATHODE MAGNETRON SPUTTER SOURCE" for which I have executed application papers for a U.S. patent thereon, which was filed on May 6, 1998, and assigned serial no. 09/073,358; and

WHEREAS, Novellus Systems, Inc., a California corporation, having a place of business at 3970 North First Street, San Jose, California 95134, is desirous of acquiring the exclusive right, title and interest in and to said invention and in and to the Letters Patent to be granted and issued therefor in the United States of America and its territories and possessions, and all countries foreign thereto;

NOW, THEREFORE, for a valuable consideration, the receipt of which is hereby acknowledged, I, Kwok Fai Lai, do sell, assign, transfer and set over unto the said Novellus Systems, Inc., its successors and assigns, the full and exclusive right, title and interest in and to said invention, and in and to any and all Letters Patent to be granted and issued therefor, not only for, to and in the United States of America, its territories and possessions, but also for, to and in all other countries including all priority rights under the International Convention; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to Novellus Systems, Inc., its successors and assigns, in accordance with this Assignment.

WITNESS MY HAND at	, California, this day of
1 ¹ / ₁ 2 ₄ , 1998.	
Kook fur Fan	
Kwok Fai Lai	
STATE OF CALIFORNIA	
COUNTY OF Shorter Clara)	SS.
On this DIS day of Alasky	, 1998, before me, Margar to Outly
ريهس <u>(۲۵٬۲۵۹ کــ</u> a Notary Public, personally appea	red Kwok Fai Lai, personally known to me (or proved to me rson whose name is subscribed to the within instrument
and acknowledged to me that he/she executed the	e same in his/her authorized capacity, and that by
his/her signature on the instrument the person or executed the instrument.	the entity upon behalf of which the person acted,
WITNESS my hand and official sea	al
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MARGARITA OUTLEY Commission #1159692	NØTARY/PUBLIC
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My Comm Expires Oct 27 2001

RECORDED: 06/19/1998

PATENT REEL: 9273 FRAME: 0666