

ASSIG

R SHEET



To: Honorable Commissioner of Patents and Trademarks:

Please record the attached	original	document(s)	or copy	thereof.
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Novellus Systems, Inc.

1.	Name	of conveying party(ies)	9.24-03
	a)	Yongsik Yu	4770)
	b)	Karen Billington	
	c)	Robert Hepburn	
	d)	Michael Carris	
	e)	William Crew	
2.	Name	and address of receiving p	party(ies):

	,	Address:	3970 North Fi	rst Stree	et, San Jose, CA 95134
3.	Natur	Assignment Security Agree Other			Merger Change of Name License Agreement
	Execu	ution Date:			
	a)	9/18/03			
	b)	9/19/03			
	c)	9/19/03			
	d)	9/22/03			
	e)	9/23/03			

4. Application Number(s) or Patent Number(s): NEW

The title of the (new) application is:

10670660

NOVEL FILM FOR COPPER DIFFUSION BARRIER

5. Please send all correspondence concerning this (these) documents to:

> Beyer Weaver & Thomas, LLP P.O. Box 778 Berkeley, CA 94704-0778 Ph: (510) 843-6200 Fax: (510) 843-6203 (Customer Number: 022434)

- 6. Total number of applications and patents involved: 1
- 7. Total fee (37 CFR 3.41): \$40.00

Enclosed

a)

Name:

Enclosed
Any additional fees are authorized to be charged to Deposit Account No. 500388
(Order No. NOVLP078)

To the best of my knowledge and belief, the foregoing information is true and correct and any additional fees are authorized to be charged to Deposit Account No. 500388
(Order No. NOVLP078)

To the best of my knowledge and belief, the foregoing information is true and correct and any additional fees are authorized to be charged to Deposit Account No. 500388
(Order No. NOVLP078)

Roger S. Sampson
Registration No. 44,314

attached copy is a true copy of the original document

Date:

Attorney Docket No. NOVLP078/NVLS-2856

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PATENT REEL: 014551 FRAME: 0307

ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

NOVEL FILM FOR COPPER DIFFUSION BARRIER

(Atty. Docket No. NOVLP078/NVLS-2856), (check or	ne)
for which I have executed a U.S. patent ap which bears U.S. application No. which is a U.S. provisional application. (A	oplication on even date herewith. (Accompanying) (Not accompanying) .ccompanying)
For good and valuable consideration, the rece acknowledged, I, an undersigned inventor, hereby:	ipt and sufficiency of which is hereby

- 1) Sell, assign and transfer to Novellus Systems, Inc., a California corporation having a place of business at 3970 North First Street, San Jose, California 95134 ("ASSIGNEE"), the entire right, title and interest in any and all improvements and inventions disclosed in, applications based upon, and patents granted upon (including foreign patents and the right to claim priority), the above-referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
- 6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.

Signed on the date indicated beside my signature.

Revised 01/02, Assign US Notary

PATENT REEL: 014551 FRAME: 0308

1. Inventor Signature:	Ma Wand	Date:	9/18/2003
	ongsik Yu		
State of Oregon)	8 S.	
County of Clacka	mas)	55.	
	day of, Notary Public, perso	onally appeared Yongsil	Yu, personally known to
me (or proved to me on the to the within instrument, authorized capacity(ies), an behalf of which the person WITNESS my hand	and acknowledged to a distributed that by his/her signature acted, executed the instru-	me that he/she execute on the instrument the	ted the same in his/her
Notary Signature		(SEAL)	
2. Inventor Signature:	Lacus Bollington	Date:	09/19/2003
State of Oregon)		
County of		88.	
On this	lay of, Notary Public, perso	, in the ye	ear 200, tefore me,
to me (or proved to me of subscribed to the within in his/her authorized capacity entity upon behalf of which WITNESS my hand	on the basis of satisfactonstrument, and acknowled (ies), and that by his/her the person acted, execute	ory evidence) to be the edged to me that he/si signature on the instr	e person whose name is he executed the same in
Notary Signature		(SEAL)	

	Robert Hepburn	Date:	9/19/03
State of Oregon County of <u>Washin</u>	gton) s	S.	
to me (or proved to me	, Notary Public, person on the basis of satisfactor	nally appeared Robert He y evidence) to be the	person whose name is
his/her authorized capacit	instrument, and acknowled y(ies), and that by his/her the person acted, executed and official seal.	signature on the instru	
Notary Signature		(SEAL)	
4. Inventor Signature:	Mahre Carris	Date:	09/22/03
State of Oregon County of)). sa)		
On this	day of, Notary Public, perso		ar 200, before me Carris, personally known
to me (or proved to me subscribed to the within his/her authorized capacit	on the basis of satisfactor instrument, and acknowled y(ies), and that by his/her h the person acted, executed	y evidence) to be the iged to me that he/sh signature on the instru	person whose name is e executed the same in
Notary Signature		(SEAL)	

.5. Inventor Signature: William Crew	Date: 9/25/03
State of Oregon)
County of Washington) ss.)
subscribed to the within instrument, and	
Notary Signature	(SEAL)

Revised 01/02, Assign US Notary

PATENT REEL: 014551 FRAME: 0311