ASSIGNMENT RECORDATION COVER SHEET -PATENTS ONLY-

Comm	iieei.	OTAT	of I	Sater	de.
\mathbf{C} OHIII.	ussi	ULICI	$\mathbf{o}_{\mathbf{I}}$	- 4101	ш.

	Please re	cord the attach	ed document.		
1.	a)b)c)	conveying part Chi-I Lang Judy H. Huang Michael Barnes Sunil Shanker			
2.	a)]	Address:	ceiving party: Novellus Syste 3970 North Fir San Jose, Cali	rst Street	
3.	Execution a) 1 b) 1 c) 1	f conveyance: Assignment Security Agreer Other In Date: February 8, 200 February 8, 200 May 9, 2006 February 8, 200	6 6		Merger Change of Name License Agreement
4.		ion Number or i		•	,
5.	The title of the application is: CVD FLOWABLE GAP FILL Please send all correspondence concerning this document to:				
			Beyer Weaver P.O. Box 7025 Oakland, CA Customer Nu	50 94612-0	250
6.	Total number of applications and patents involved: 1				
7.	Total fee	(37 CFR 3.41)	<u>\$40.00</u>		
			ees are authori:		(Order No. NOVLP143). charged to Deposit Account No. 500388
Date:	June 12,	2006			S. Bergin ation No. 50,581

Total number of pages including this cover sheet, attachments and documents: 7

Attorney Docket No. NOVLP143/NVLS-3099

PATENT

REEL: 017778 FRAME: 0593

ASSIGNMENT OF PATENT APPLICATION

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

CVD FLOWABLE GAP FILL

(Atty. I	Docket No. NOVLP143/NVLS-3099), (check one)
	☐ for which I have executed a U.S. patent application on even date herewith. (Accompanying) ☑ which bears U.S. application No.11/323,812. (Not accompanying) ☐ which is a U.S. provisional application. (Accompanying)
	For good and valuable consideration, the receipt and sufficiency of which is hereby ledged, I, an undersigned inventor, 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.

Page 1 of 3

PATENT REEL: 017778 FRAME: 0594

WITNESS my hand and official seal.

Notary Signature ____

JUN. 12. 2006 4:42PM	5106630920		NO. 204 P. 5
_ u	2010		02/08/2006
4. Inventor Signature:		Date:	02/00/2006
	Sunil Shanker		· · · · · · · · · · · · · · · · · · ·
State of California)		
)	SS.	
County of Same	CLARA)		
On this 🚜	day of Fee	in the	year 2006, before me,
SANK ROGE	≥≤, Notary Public.	personally appeared Suni	Shanker, personally known
,to_me_(or proved to m	e on the basis of sati	sfactory evidence) to be	the person whose name is
subscribed to the within	n instrument, and ack	nowledged to me that he	e/she executed the same in
his/her-authorized capac	city (ics) , and that by-l	is/ her signature on the in	strument the person, or the
entity upon behalf of wh	ich the person acted, e	xecuted the instrument.	•
WITNESS my ha	and and official seal.	•••	
Notary Signature	e.u. Reger		LAN K. ROGERS Commission # 1598855
V			Notary Public - California Santa Clara County My Comm. Expires Aug 1, 2009

ASSIGNMENT OF PATENT APPLICATION

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

CVD FLOWABLE GAP FILL

(Atty. Docket No. NOVLP143/NVLS-3099), (check one)
for which I have executed a U.S. patent application on even date herewith. (Accompanying which bears U.S. application No.11/323,812. (Not accompanying) which is a U.S. provisional application. (Accompanying)
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, 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.

Page 1 of 3

PATENT REEL: 017778 FRAME: 0597

1. Inventor Signature:	
Chi-I Lang	-
State of California)	
,	SS.
County of	
On this day of	, in the year 2006, before me,
, Notary Public	, personally appeared Chi-I Lang, personally known to
me (or proved to me on the basis of satisfactor	y evidence) to be the person whose name is subscribed
to the within instrument, and acknowledge	d to me that he/she executed the same in his/her
authorized capacity(ies), and that by his/her sig	mature on the instrument the person, or the entity upon
behalf of which the person acted, executed the	instrument.
WITNESS my hand and official seal.	
Notary Signature	
2. Inventor Signature:	Date:
Judy H. Huang	
State of California)	
, , ,	\$\$.
County ofOn this day of	, in the year 2006, before me,
	ic, personally appeared Judy H. Huang, personally
Notary Fubi	c, personanty appeared sudy in industry, personanty
known to me (or proved to me on the basis of	satisfactory evidence) to be the person whose name is
subscribed to the within instrument, and act	knowledged to me that he/she executed the same in
nis/ner authorized capacity(les), and that by .	his/her signature on the instrument the person, or the
entity upon behalf of which the person acted, e	xechied me instrument.
WITNESS my hand and official seal.	
Notary Signature	
Notary Signature	
/	-1 <i>(</i>
3. Inventor Signature:	Date: 519/06
Michael Barnes	
State of California)	
)	SS.
County of	
On this day of	, in the year 2006, before me,
	ic, personally appeared Michael Barnes, personally
known to me (or proved to me on the basis of	satisfactory evidence) to be the person whose name is
	knowledged to me that he/she executed the same in
his/her authorized capacity(ies), and that by	his/her signature on the instrument the person, or the
entity upon behalf of which the person acted, e	
WITNESS my hand and official seal.	
•	
Notary Signature	

4. Inventor Signature:		Date:	
Sunil Shan	iker		
State of California)		
) ss.		
County of			
On this day of	f	in the year 2006, befor	re me
		peared Sunil Shanker, personally	
to me (or proved to me on the b			
subscribed to the within instrume			
his/her authorized capacity(ies), an			, or the
entity upon behalf of which the per-	rson acted, executed the inst	strument.	
WITNESS my hand and off	ficial seal.		

Page 3 of 3

PATENT REEL: 017778 FRAME: 0599

NO. 204 P. 8

RECORDED: 06/12/2006

JUN. 12. 2006 4:43PM

5106630920

Notary Signature _____