

# PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		
CONVEYING PARTY DATA			
		Name	Execution Date
		Hui-Jung Wu	03/28/2008
		Kimberly Shafi	04/10/2008
		Kaushik Chattopadhyay	03/28/2008
		Keith Fox	04/11/2008
		Tom Mountsier	03/28/2008
		Girish Dixit	03/28/2008
		Bart van Schravendijk	02/13/2008
		Elizabeth Apen	04/09/2008
RECEIVING PARTY DATA			
Name:	Novellus Systems, Inc.		
Street Address:	3970 North First Street		
City:	San Jose		
State/Country:	CALIFORNIA		
Postal Code:	95134		
PROPERTY NUMBERS Total: 1			
Property Type		Number	
Application Number:		12082496	
CORRESPONDENCE DATA			
Fax Number:	(510)663-0920		
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>			
Email:	djones@wavsip.com		
Correspondent Name:	Weaver Austin Villeneuve & Sampson LLP		
Address Line 1:	500 12th Street		
Address Line 4:	Oakland, CALIFORNIA 94607		
ATTORNEY DOCKET NUMBER:	NOVLP202/NVLS-3250		

CH \$40.00 12082496

**500564217**

**PATENT  
 REEL: 021082 FRAME: 0227**

NAME OF SUBMITTER:

Cindy H. Shu

**Total Attachments: 15**

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re application of: Hui-Jung Wu et al.

Attorney Docket No.: NOVLP202/NVLS-3252

Application No.: 12/082,496

Examiner: Unassigned

Filed: April 11, 2008

Group: Unassigned

Title: METHODS FOR REDUCING UV  
AND DIELECTRIC DIFFUSION BARRIER  
INTERACTION

Reel No. Unassigned

Frame No. Unassigned

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CERTIFICATE OF EFS-WEB TRANSMISSION

I hereby certify that this correspondence is being transmitted electronically through EFS-WEB to the Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450 on June 11, 2008.

Signed: \_\_\_\_\_/Danielle Jones/  
Danielle Jones

**COMMUNICATION**

Mail Stop Assignment  
Recordation Services  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

We received the attached Notice returning assignments we filed on April 11, 2008 (Express Mail: EM192041196US and Attorney Docket No.: NOVLP202/NVLS-3252). An Assignment Recordation Sheet is enclosed with the original assignment papers. However, please note that the assignment recordation fee of \$40 was paid with the application filing as shown in the attached Utility Patent Application Transmittal.

Date: June 11, 2008

Respectfully submitted,  
Weaver Austin Villeneuve & Sampson LLP

/James E. Austin/

James E. Austin  
Reg. No. 39,489

/Cindy H. Shu/

Cindy H. Shu  
Reg. No. 48,721

P.O. Box 70250  
Oakland, CA 94612-0250



**UNITED STATES DEPARTMENT OF COMMERCE**

**Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

April 28, 2008

NOVELLUS SYSTEMS, INC.  
3970 NORTH FIRST STREET  
SAN JOSE CA 95134

Dear Sir:

NOTICE OF ASSIGNMENT RECEIVED WITHOUT COVERSHEET ATTACHED (USPTO FORM 1595 FOR PATENTS AND 1594 FOR TRADEMARKS)

Thank you for your request to record a document with the Patent and Trademark Office. However, the attached assignment was received in the U.S. Patent and Trademark Office, Assignment Services Division without a completed coversheet attached. We are returning the assignment to you.

Please resubmit the coversheet along with a legible copy of the assignment. If you have already received your assignment back recorded or wish not to record the assignment at this time please disregard this notice and keep the assignment for your records. If you have any questions, you may contact the undersigned at (571) 272-3350.

The assignment fees are as follows:

Patent Assignment	
(For each property)	\$40.00

Trademark Assignment	
(Including one property)	\$40.00
(Each additional property)	\$25.00

Sincerely,

Regina R. White  
Supervisor Paralegal Specialist

**ASSIGNMENT RECORDATION COVER SHEET  
-PATENTS ONLY-**

Commissioner of Patents:

Please record the attached document.

1. Name of conveying party:
- |    |                       |    |                       |
|----|-----------------------|----|-----------------------|
| a) | Hui-Jung Wu           | e) | Tom Mountsier         |
| b) | Kimberly Branshaw     | f) | Girish Dixit          |
| c) | Kaushik Chattopadhyay | g) | Bart van Schravendijk |
| d) | Keith Fox             | h) | Elizabeth Apen        |

2. Name and address of receiving party:
- a) Name: Novellus Systems, Inc.  
Address: 3970 North First Street  
San Jose, California 95134

3. Nature of conveyance:
- |                                     |                    |                          |                |
|-------------------------------------|--------------------|--------------------------|----------------|
| <input checked="" type="checkbox"/> | Assignment         | <input type="checkbox"/> | Merger         |
| <input type="checkbox"/>            | Security Agreement | <input type="checkbox"/> | Change of Name |

Execution Date: 02/13/08; 03/28/08; 04/09/08; 04/10/08; 04/11/08

4. Application Number or Patent Number: 12/082,496

The title of the application is: METHODS FOR REDUCING UV AND DIELECTRIC DIFFUSION BARRIER INTERACTION

5. Please send all correspondence concerning this document to:

**Weaver Austin Villeneuve & Sampson LLP  
P.O. Box 70250  
Oakland, CA 94612-0250  
Customer Number: 022434**

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00 This fee was paid via Check No. 1165 with original filing of application no. 12/082,496, on April 11, 2008. (Atty Docket No. NOVLP202/NVLS-3252)

- ☐ Charge to Deposit Account No. 504480 (Order No. \_\_\_\_\_).
- ☒ Any additional fees are authorized to be charged to Deposit Account No. 500388 (Order No. NOVLP202).

Date: June 11, 2008

/James E. Austin/

James E. Austin  
Registration No. 39,489

/Cindy H. Shu/


Cindy H. Shu  
Registration No. 48,721

Total number of pages including this cover sheet, attachments and documents: 11

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**CERTIFICATE OF EXPRESS MAILING**

I hereby certify that this paper and the documents and/or fees referred to as attached therein are being deposited with the United States Postal Service on April 11, 2008 in an envelope as "Express Mail Post Office to Addressee" service under 37 CFR §1.10, Mailing Label Number **EM192041196US**, addressed to the Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

  
Emma Esper

Attorney Docket No.: NOVLP202/NVLS-3252

First Named Inventor: Hui-Jung Wu

**UTILITY PATENT APPLICATION TRANSMITTAL (37 CFR. § 1.53(b))**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir: This is a request for filing a patent application under 37 CFR. § 1.53(b) in the name of inventors:  
**Hui-Jung Wu, Kimberly Shafi, Kaushik Chattopadhyay, Keith Fox, Tom Mountsier, Girish Dixit, Bart van Schravendijk and Elizabeth Apen**

For: **METHODS FOR REDUCING UV AND DIELECTRIC DIFFUSION BARRIER INTERACTION**

Assigned to: Novellus Systems, Inc.

**Application Elements:**

- ☒ **26** Pages of Specification, Claims and Abstract
- ☒ **5** Sheets of formal Drawings
- ☒ **7** Pages Combined Declaration and Power of Attorney

**Accompanying Application Parts:**

- ☒ Do not publish this application. Nonpublication Request is attached.
- ☒ Assignment and Assignment Recordation Cover Sheet (recording fee of \$40.00 enclosed)
- ☐ 37 CFR 3.73(b) Statement by Assignee
- ☒ Information Disclosure Statement with Form PTO-1449
- ☒ Copies of IDS Citations
- ☐ Preliminary Amendment
- ☒ Return Receipt Postcard
- ☐ Other:

**Claim For Foreign Priority**

☐ Priority of \_\_\_\_\_ Application No. \_\_\_\_\_ filed on \_\_\_\_\_  
is claimed under 35 U.S.C. § 119.

- ☐ The certified copy is enclosed.
- ☐ The certified copy has been filed in prior application U.S. Application No.
- ☐ The certified copy will follow.

Fee Calculation (37 CFR § 1.16)

☐ Applicant is entitled to Small Entity Status under 37 C.F.R. §1.27.

	(Col. 1) Total Claims		(Col. 2) Claims	(Col. 3) Present Extra	Rate	Additional Fee
TOTAL	18	MINUS	20	=	x 50 =	0
INDEP.	3	MINUS	3	=	x 210 =	0
Utility Search Fee					=	\$510
Utility Examination Fee					=	\$210
Utility Application Size Fee (for each additional 50 sheets that exceeds 100 sheets)					\$260	
[ ] First presentation of multiple dependent claim					\$370	
Basic Filing Fee under 37 C.F.R. §1.16(a)					=	\$310
TOTAL						1030.00
SMALL ENTITY 50% FILING FEE REDUCTION (if applicable)						

☒ Check No. 1165 in the amount of \$1070.00 is enclosed.

☒ The Commissioner is authorized to charge any fees beyond the amount enclosed which may be required, or to credit any overpayment, to Deposit Account No. 504480 (Order No. NOVLP202).

General Authorization for Petition for Extension of Time (37 CFR §1.136)

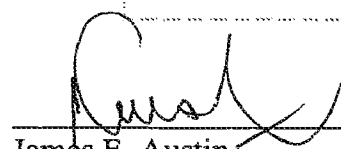
☒ Applicants hereby make and generally authorize any Petitions for Extensions of Time as may be needed for any subsequent filings. The Commissioner is also authorized to charge any extension fees under 37 CFR §1.17 as may be needed to Deposit Account No. 504480 (Order No. NOVLP202).

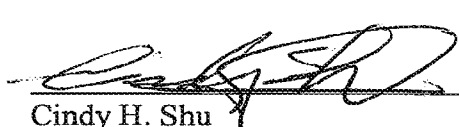
☒ Please send correspondence to the following address:

Customer Number 022434

022434

Date: April 11, 2008

  
James E. Austin  
Registration No. 39,489

  
Cindy H. Shu  
Registration No. 48,721

## ASSIGNMENT OF PATENT APPLICATION

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

### METHODS FOR REDUCING UV AND DIELECTRIC DIFFUSION BARRIER INTERACTION

(Atty. Docket No. NOVLP202/NVLS-3250/3252), (check one)

- ☒ for which I have executed a U.S. patent application on even date herewith. (Accompanying)  
☐ which bears U.S. application No. \_\_\_\_\_. (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.



1. Inventor Signature: Hui-Jung Wu

Date: 3/28/2008

State of California )

County of Santa Clara )

ss.

SEE ATTACHED

On this 28<sup>th</sup> day of MARCH, in the year 2008, before me, JAN K. ROGERS, Notary Public, personally appeared Hui-Jung Wu, personally 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 acknowledged 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, executed the instrument.

WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_

(SEAL)

2. Inventor Signature: \_\_\_\_\_

Kimberly Branshaw

Date: \_\_\_\_\_

State of Idaho )

County of \_\_\_\_\_ )

ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2007 before me, \_\_\_\_\_, Notary Public personally appeared Kimberly Branshaw, personally 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 acknowledged 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, executed the instrument.

WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_

(SEAL)

3. Inventor Signature: Kaushik Chattopadhyay

Kaushik Chattopadhyay

Date: 03/28/08

State of California )

County of \_\_\_\_\_ )

ss.

SEE ATTACHED

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2007 before me, \_\_\_\_\_, Notary Public personally appeared Kaushik Chattopadhyay, personally 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 acknowledged 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, executed the instrument.

WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_

(SEAL)

Revised 01/02, Assign US Notary

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

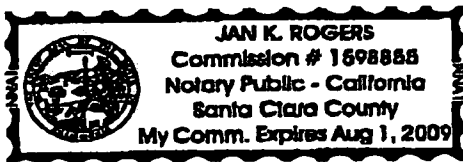
County of SANTA CLARA

On MARCH 28, 2008 before me, JAN K. ROGERS, Notary Public

personally appeared HUI-JUNG WU AND KAUSHIK

CHATTOPADHYAY

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Place Notary Seal Above

Signature Jan K. Rogers  
Signature of Notary Public

## OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

### Description of Attached Document

Title or Type of Document: ASSIGNMENT OF PATENT APPLICATION

Document Date: NONE Number of Pages: ONE

Signer(s) Other Than Named Above: \_\_\_\_\_

### Capacity(ies) Claimed by Signer(s)

Signer's Name: HUI-JUNG WU

- ☒ Individual  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney in Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer is Representing: SELF



Signer's Name: KAUSHIK CHATTOPADHYAY

- ☒ Individual  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney in Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer is Representing: SELF



1. Inventor Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Hui-Jung Wu

State of California )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2007, before me, \_\_\_\_\_, Notary Public, personally appeared Hui-Jung Wu, personally 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 acknowledged 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, executed the instrument.

WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_

INSEAL

2. Inventor Signature: Kimberly Branshaw Date: 4/10/08  
~~Kimberly Branshaw~~ Shack

State of Idaho )  
County of Ada ) ss. 359-62-2725

On this 10<sup>th</sup> day of April, in the year 2007 before me, \_\_\_\_\_, Notary Public personally appeared Kimberly Branshaw, personally 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 acknowledged 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, executed the instrument.

WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_

INSEAL

3. Inventor Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Kaushik Chattopadhyay

State of California )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2007 before me, \_\_\_\_\_, Notary Public personally appeared Kaushik Chattopadhyay, personally 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 acknowledged 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, executed the instrument.

WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_

INSEAL

Revised 01/02, Assign US Notary

4. Inventor Signature: \_\_\_\_\_

Keith Fox

Date: April, 11-2008

State of Oregon )

County of Washington )

ss.

On this 11<sup>th</sup> day of April, in the year 2008 before me, Laura L. Johnson, Notary Public personally appeared Keith Fox, personally 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 acknowledged 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, executed the instrument.

WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_

Laura L. Johnson



5. Inventor Signature: \_\_\_\_\_

Tom Mountsier

Date: \_\_\_\_\_

State of California )

County of \_\_\_\_\_ )

ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2007 before me, \_\_\_\_\_, Notary Public personally appeared Tom Mountsier, personally 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 acknowledged 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, executed the instrument.

WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_

(SEAL)

6. Inventor Signature: \_\_\_\_\_

Girish Dixit

Date: \_\_\_\_\_

State of California )

County of \_\_\_\_\_ )

ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2007 before me, \_\_\_\_\_, Notary Public personally appeared Girish Dixit, personally 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 acknowledged 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, executed the instrument.

WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_

(SEAL)

4. Inventor Signature: Keith Fox Date: \_\_\_\_\_

State of Oregon )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2007 before me, \_\_\_\_\_, Notary Public personally appeared Keith Fox, personally 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 acknowledged 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, executed the instrument.

WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_

(SEAL)

5. Inventor Signature: Tom Mountsier Date: 3/28/08

State of California )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2007 before me, \_\_\_\_\_, Notary Public personally appeared Tom Mountsier, personally 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 acknowledged 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, executed the instrument.

WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_

(SEAL)

6. Inventor Signature: Girish Dixit Date: 3/28/08

State of California )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2007 before me, \_\_\_\_\_, Notary Public personally appeared Girish Dixit, personally 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 acknowledged 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, executed the instrument.

WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_

(SEAL)

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of SANTA CLARA

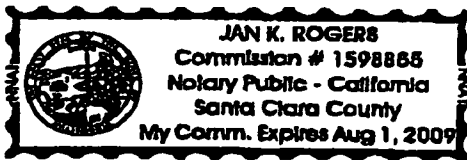
On MARCH 28, 2008 before me, JAN K. ROGERS, Notary Public

personally appeared TOM MOUNTSIER AND GRISH DIXIT

Here Insert Name and Title of the Officer

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is/are~~ subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in ~~his/her/their~~ authorized capacity(ies), and that by ~~his/her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Place Notary Seal Above

Signature Jan K. Rogers

Signature of Notary Public

## OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

### Description of Attached Document

Title or Type of Document: ASSIGNMENT OF PATENT APPLICATION

Document Date: NONE Number of Pages: ONE

Signer(s) Other Than Named Above: \_\_\_\_\_

### Capacity(ies) Claimed by Signer(s)

Signer's Name: TOM MOUNTSIER

- ☒ Individual  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney in Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

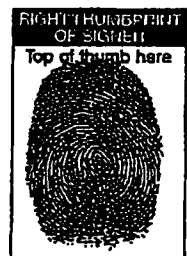
Signer Is Representing: SELF



Signer's Name: GRISH DIXIT

- ☒ Individual  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney in Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing: SELF



7. Inventor Signature: \_\_\_\_\_

Bart van Schravendijk

Date: 2/13/2008

State of California )

County of SANTA CLARA )

ss.

On this 13th day of \_\_\_\_\_, in the year 2007 before me, \_\_\_\_\_, Notary Public personally appeared Bart van Schravendijk, personally 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 acknowledged 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, executed the instrument.  
WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_

(SEAL)

8. Inventor Signature: \_\_\_\_\_

Elizabeth Apen

Date: \_\_\_\_\_

State of Oregon )

County of \_\_\_\_\_ )

ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2007 before me, \_\_\_\_\_, Notary Public personally appeared Elizabeth Apen, personally 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 acknowledged 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, executed the instrument.  
WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_

(SEAL)

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

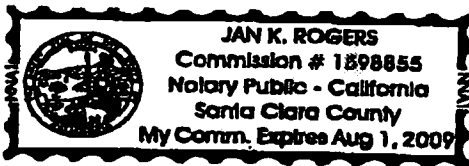
State of California

County of SANTA CLARA

On FEBRUARY 13, 2008 before me, JAN K. ROGERS, Notary Public  
Day Here Insert Name and Title of the Officer

personally appeared BART VAN SCHRAVENDIJK  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Place Notary Seal Above

Signature Jan K. Rogers  
Signature of Notary Public

## OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

### Description of Attached Document

Title or Type of Document: ASSIGNMENT OF PATENT APPLICATION

Document Date: NONE Number of Pages: FOUR

Signer(s) Other Than Named Above: \_\_\_\_\_

### Capacity(ies) Claimed by Signer(s)

Signer's Name: BART VAN SCHRAVENDIJK

- ☒ Individual  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney in Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer is Representing: SELF



Signer's Name: \_\_\_\_\_

- ☐ Individual  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney in Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer is Representing: \_\_\_\_\_





7. Inventor Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Bart van Schravendijk

State of California )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2007 before me, \_\_\_\_\_, Notary Public personally appeared Bart van Schravendijk, personally 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 acknowledged 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, executed the instrument.

WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_ (SEAL)

8. Inventor Signature: Elizabeth Apen Date: 4/9/08  
Elizabeth Apen

State of Oregon )  
County of Washington ) ss.

On this 9th day of April, in the year 2008 before me, Laura L. Johnson, Notary Public personally appeared Elizabeth Apen, personally 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 acknowledged 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, executed the instrument.

WITNESS my hand and official seal.

Notary Signature Laura L. Johnson

