

ATTY. DKT. NO. 9162/DISPLAY/AKT/RKK

RECORDATION FORM COVER SHEET

U.S. Department of Commerce  
Patent and Trademark Office

FORM PTO-1586  
(Rev. 5-03)  
OMB No. 0851-0011 (EXP. 1/04)

PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

1. Name of conveying party(ies):

	<u>Date</u>
Soo Young Choi	08/02/2004
John M. White	08/03/2004
Qunhua Wang	08/02/2004
Li Hou	08/02/2004

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other	

Execution Date: Same as the Above and the Attached

2. Name and address of receiving party(ies):

Name: Applied Materials, Inc.

Internal Address: P.O. Box 450-A

Street Address:

City: Santa Clara State: CA Zip: 95052

Additional name(s) & address(es) attached?  Yes  No

4. Application number(s) or registration number(s): Unknown

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_ (Date of Filing)

A. Patent Application No.(s) 10/889,683 filed 07/12/2004

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Patent Counsel

Internal Address: APPLIED MATERIALS, INC.

Street Address: P.O. Box 450-A

City: Santa Clara State: CA Zip: 95052

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. 3.41) \$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

50-1074/9162/DISPLAY/AKT/RKK

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 any attached copy is a true copy of the original document.

Robert W. Mulcahy, Reg. No. 25,436

Name of Person Signing

Signature

01/17/05

Date

Total number of pages including cover sheet, attachments and document: 12

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents, MAIL STOP  
P.O. BOX 1450  
Alexandria, VA 22313-1450

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Page 2 of 2

Name of conveying party(ies) – continued:

	<u>Date</u>
Ki Woon Kim	08/20/2004
Shinichi Kurita	08/02/2004
Tae Kyung Won	08/09/2004
Suhail Anwar	09/21/2004
Beom Soo Park	08/06/2004
Robin L. Tiner	08/01/2004

Execution date: same as the above

Atty. Docket No.: 9162/DISPLAY/AKT/RKK

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses  
of Inventors:

1)	<b>SOO YOUNG CHOI</b> 40907 Rioja Court Fremont, CA 94539	2)	<b>JOHN M. WHITE</b> 2811 Colony View Place Hayward, CA 94541
3)	<b>QUNHUA WANG</b> 2927 Vista Creek Drive San Jose, CA 95133	4)	<b>LI HOU</b> 21090 Red Fir Court Cupertino, CA 95014
5)	<b>KI WOON KIM</b> #703, 505 Booyoung APT Gupyong-dong, Gumi-city Kyoungbuk, South Korea 730-300	6)	<b>SHINICHI KURITA</b> 3532 Rollingside Drive San Jose, CA 95148
7)	<b>TAE KYUNG WON</b> 1054 Belvedere Lane San Jose, CA 95129	8)	<b>SUHAIL ANWAR</b> 539 Villa Centre Way San Jose, CA 95128
9)	<b>BEOM SOO PARK</b> 6870 Aintree Drive San Jose, CA 95119	10)	<b>ROBIN L. TNER</b> 144 Lance Court Santa Cruz, CA 95065

(hereinafter referred to as Assignors), have invented a certain invention entitled:

**PLASMA UNIFORMITY CONTROL BY GAS DIFFUSER HOLE DESIGN**for which application for Letters Patent in the United States was filed on 07/12/2004 ,  
under Serial No. 10/889,683, executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:


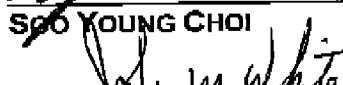
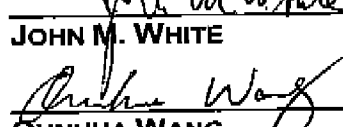
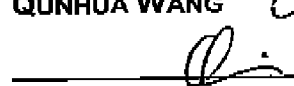
1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a conventional, division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

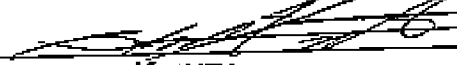



2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting conventional, substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

- 1) 8/02/04 (DATE)   
SOO YOUNG CHOI
- 2) 8/3/04 (DATE)   
JOHN M. WHITE
- 3) 08/02/04 (DATE)   
QUNHUA WANG
- 4) 8/2/04 (DATE)   
LI HOU
- 5) \_\_\_\_\_ (DATE) \_\_\_\_\_  
KI WOON KIM

- 6) 8/2/04 (DATE)   
SHINICHI KURITA
- 7) 08/09/04 (DATE)   
TAE KYUNG WON
- 8) \_\_\_\_\_ (DATE) \_\_\_\_\_  
SUHAIL ANWAR
- 9) 8-6-04 (DATE)   
BEOM SOO PARK
- 10) 8-1-04 (DATE)   
ROBIN L. TINER

Atty. Docket No.: 9162/DISPLAY/AKT/RKK

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of Inventors:

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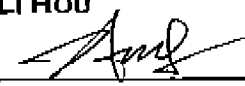
1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a conventional, division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

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		<b>QUNHUA WANG</b>
4)	_____ (DATE)	_____
		<b>LI HOU</b>
5)	<u>8/20/04</u> (DATE)	
		<b>KI WOON KIM</b>

- 6) \_\_\_\_\_ (DATE) \_\_\_\_\_  
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**BEOM SOO PARK**
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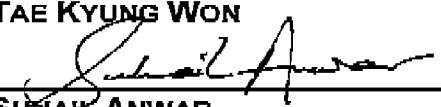
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TAE KYUNG WON
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SUHAIL ANWAR
- 9) \_\_\_\_\_ (DATE) \_\_\_\_\_  
BEOM SOO PARK
- 10) \_\_\_\_\_ (DATE) \_\_\_\_\_  
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