

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7325349

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NING LI	02/18/2022
SHUAI DI ZHANG	05/08/2022
MIHAELA A. BALSEANU	05/09/2022
QI GAO	02/21/2022
RAJESH PRASAD	02/18/2022
TOMOHIKO KITAJIMA	02/25/2022
CHANG SEOK KANG	02/18/2022
DEVEN MATTHEW RAJ MITTAL	02/18/2022
KYU-HA SHIM	02/18/2022
RECEIVING PARTY DATA	
Name:	APPLIED MATERIALS, INC.
Street Address:	3050 BOWERS AVENUE
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95054
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	17677406
Application Number:	17667704
CORRESPONDENCE DATA	
Fax Number:	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Email:	lmurphy@dsiplaw.com
Correspondent Name:	SERVILLA WHITNEY LLC
Address Line 1:	33 WOOD AVENUE SOUTH
Address Line 2:	SUITE 830
Address Line 4:	ISELIN, NEW JERSEY 08830
ATTORNEY DOCKET NUMBER:	44019270US02

NAME OF SUBMITTER:	REBECCA A. SMIRK
SIGNATURE:	/Rebecca A. Smirk, Reg. #61295/
DATE SIGNED:	05/11/2022
Total Attachments: 5 source=01109827#page1.tif source=01109827#page2.tif source=01109827#page3.tif source=01109827#page4.tif source=01109827#page5.tif	

Attorney Docket No. 44019270US02

ASSIGNMENT FOR APPLICATION FOR PATENT**WHEREAS:**

Names and Addresses of Inventors

1)	Ning Li c/o Applied Materials, Inc. 3050 Bowers Avenue Santa Clara, CA 95054 United States of America
2)	Shuaidi Zhang c/o Applied Materials, Inc. 3050 Bowers Avenue Santa Clara, CA 95054 United States of America
3)	Mihaela A. Balseanu 1639 Belleville Way, Apt T Sunnyvale, CA 94057 United States of America
4)	Qi Gao c/o Applied Materials, Inc. 3050 Bowers Avenue Santa Clara, CA 95054 United States of America
5)	Rajesh Prasad c/o Applied Materials, Inc. 3050 Bowers Avenue Santa Clara, CA 95054 United States of America

6)	Tomohiko Kitajima c/o Applied Materials, Inc. 3050 Bowers Avenue Santa Clara, CA 95054 United States of America
7)	Chang Seok Kang c/o Applied Materials, Inc. 3050 Bowers Avenue Santa Clara, CA 95054 United States of America
8)	Deven Matthew Raj Mittal c/o Applied Materials, Inc. 3050 Bowers Avenue Santa Clara, CA 95054 United States of America
9)	Kyu-Ha Shim c/o Applied Materials, Inc. 3050 Bowers Avenue Santa Clara, CA 95054 United States of America

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

"SEQUENTIAL PLASMA AND THERMAL TREATMENT"

for which application for Letters Patent in the United States was filed on Feb 9, 2022,

under Serial No. 17667704, 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, CA, 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

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

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 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 therefore 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.

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.

2/18/2022
1) _____, 2022

DocuSigned by:
Ming Li
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(INVENTOR) Ning Li

2) _____, 2022

(INVENTOR) Shuaidi Zhang

Attorney Docket No. 44019270US02

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 the 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 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 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 therefore 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) _____, 2022 /_____/_____
(INVENTOR) Ning Li

2) 5/8/2022 _____, 2022 /_____/_____
(INVENTOR) Shuaidi Zhang

DocuSigned by:

Shuaidi Zhang

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Mihaela A. Balseanu

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9) _____, 2022 / /
(INVENTOR) Kyu-Ha Shim

Attorney Docket No. 44019270US02

3) _____, 2022 /
(INVENTOR) Mihaela A. Balseanu

4) 2/21/2022, 2022 /
(INVENTOR) Qi Gao

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Qi Gao
EC2374A546D64C4

5) 2/18/2022, 2022 /
(INVENTOR) Rajesh Prasad

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Rajesh Prasad
9D824AA36A404BB

6) 2/25/2022, 2022 /
(INVENTOR) Tomohiko Kitajima

DocuSigned by:
Tomohiko Kitajima
DB125D51331C474

7) 2/18/2022, 2022 /
(INVENTOR) Chang Seok Kang

DocuSigned by:
Chang Seok Kang
7EF71CC8B6E64DA...

8) 2/18/2022, 2022 /
(INVENTOR) Deven Matthew Raj Mittal

DocuSigned by:
Deven Mittal
F26BC112301248D...

9) 2/18/2022, 2022 /
(INVENTOR) Kyu-Ha Shim

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Kyu-Ha Shim
99CD6F63F69849E...