

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5489204

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|---|------------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ATASHI BASU | 03/24/2018 |
| ABHIJIT BASU MALLICK | 04/03/2019 |
| ZIQING DUAN | 03/12/2018 |
| SRINIVAS GANDIKOTA | 04/22/2019 |
| RECEIVING PARTY DATA | |
| Name: | APPLIED MATERIALS, INC. |
| Street Address: | 3050 BOWERS AVENUE |
| City: | SANTA CLARA |
| State/Country: | CALIFORNIA |
| Postal Code: | 95054 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15801949 |
| 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: | 024458US02 |
| NAME OF SUBMITTER: | JEFFREY I. BLANKMAN |
| SIGNATURE: | /Jeffrey I. Blankman, Reg. #57826/ |
| DATE SIGNED: | 04/24/2019 |
| Total Attachments: 5 | |
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ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors

| | |
|----|--|
| 1) | Atashi Basu 675 Sharon Park Drive, Apt 136 Menlo Park, CA, 94025 United States of America |
| 2) | Abhijit Basu Mallick 2637 Alma Street Palo Alto, CA, 94306 United States of America |
| 3) | Ziqing Duan 1278 Royal Crest Dr. San Jose, CA, 95131 United States of America |

| | |
|----|--|
| 4) | Srinivas Gandikota 2727 Monroe Street Santa Clara, CA, 95051 United States of America |
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(hereinafter referred to as Assignors), have invented a certain invention entitled:

"Deposition And Treatment Of Films For Patterning"

for which application for Letters Patent in the United States was filed on November 2, 2017,

under Serial No. 15801949, 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 the Application), and the invention disclosed therein (hereinafter referred to as the 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 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:

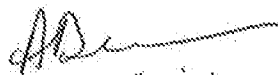
1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention 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) 03/24/ 2018 
(INVENTOR) Atashi Basu

2) _____, 2018 _____
(INVENTOR) Abhijit Basu Mallick

3) _____, 2018 _____
(INVENTOR) Ziqing Duan

4) _____, 2018 _____
(INVENTOR) Srinivas Gandikota

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.

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1) _____, 2018 _____
(INVENTOR) Atashi Basu

2) 04/03/19, 2018  _____
(INVENTOR) Abhijit Basu Mallick

3) _____, 2018 _____
(INVENTOR) Ziqing Duan

4) _____, 2018 _____
(INVENTOR) Srinivas Gandikota

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1) _____, 2018 _____
(INVENTOR) Atashi Basu

2) _____, 2018 _____
(INVENTOR) Abhijit Basu Mallick

3) 3/12, 2018 
(INVENTOR) Ziqing Duan

4) _____, 2018 _____
(INVENTOR) Srinivas Gandikota

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(INVENTOR) Atashi Basu

2) _____, 2018 _____
(INVENTOR) Abhijit Basu Mallick

3) _____, 2018 _____
(INVENTOR) Ziqing Duan

4) 04/22/, 2019 _____
(INVENTOR) Srinivas Gandikota