506446886 01/13/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6493655

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BHASKAR JYOTI BHUYAN	07/09/2019
MAK SALY	09/24/2019
WENYI LIU	07/12/2019

RECEIVING PARTY DATA

Name:	APPLIED MATERIALS, INC.	
Street Address:	ddress: 3050 BOWERS AVENUE	
City:	SANTA CLARA	
State/Country:	CALIFORNIA	
Postal Code:	95054	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17147097

CORRESPONDENCE DATA

Fax Number:

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.

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:	44014733US03DIV
NAME OF SUBMITTER:	JONATHAN B. WRIGHT
SIGNATURE:	/Jonathan B. Wright, Reg. #72662/
DATE SIGNED:	01/13/2021

Total Attachments: 4

source=00970062#page1.tif

source=00970062#page2.tif

source=00970062#page3.tif

source=00970062#page4.tif

PATENT REEL: 054903 FRAME: 0455

506446886

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS: Names and Addresses of Inventors

1)	Bhaskar Jyoti Bhuyan 1634 Willow Lake Lane San Jose, CA 95131 United States of America
2)	Mark Saly 111 Saratoga Avenue Apt. 2314 Santa Clara, CA 95051 United States of America

3)	Wenyi Liu	
-,	1650 Hope Dr. Apt 1731 Santa Clara, CA 95054	
	United States of America	

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

Methods For Depositing Blocking Layers On Conductive Surfaces

for which application for Letters Patent in the United States was filed on Dec 21, 2018, under Serial No.: 16/229,659, 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;

PATENT REEL: 054903 FRAME: 0456

- (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.
- 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.

2001

1)	<u> 7/9 /</u> , 2019	(INVENTOR) Bhaskar Jyoti Bhuyan
2)	, 2019	(INVENTOR) Mark Saly
3)	, 2019	(INVENTOR) Wenyi Un

PATENT REEL: 054903 FRAME: 0457

Attorney Docket No. 44014733US02

- (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)	, 2019	(INVENTOR) Bhaskar Jyoti Bhuyan
2)	<u>9/24</u> , 2019	May 1827 (INVENTOR) Mark Say
3)	, 2019	(INVENTOR) Wenvi Liu

PATENT REEL: 054903 FRAME: 0458

Attorney Docket No. 44014733US02

(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.

- 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)		, 2019	(INVENTOR) Bhaskar Jyoti Bhuyan	
2)		, 2019	(INVENTOR) Mark Saly	
3)	07/r	, 2019	May: Lin (INVENTOR) Welnyi Liu	•••

PATENT REEL: 054903 FRAME: 0459

RECORDED: 01/13/2021