#### 504815843 03/12/2018

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

**SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT** 

EPAS ID: PAT4862578

### **CONVEYING PARTY DATA**

Name	Execution Date
STEVEN C. H. HUNG	01/18/2018
JOHANES S. SWENBERG	01/18/2018
WEI LIU	01/18/2018
HOUDA GRAOUI	01/18/2018

#### RECEIVING PARTY DATA

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

### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	15874132	

### CORRESPONDENCE DATA

Fax Number: (713)623-4846

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.

Phone: 713-623-4844

Email: psdocketing@pattersonsheridan.com,

aregan@pattersonsheridan.com

**Correspondent Name:** PATTERSON & SHERIDAN, LLP

Address Line 1: 24 GREENWAY PLAZA, SUITE 1600

Address Line 4: HOUSTON, TEXAS 77046

ATTORNEY DOCKET NUMBER:	APPM/24446US	
NAME OF SUBMITTER:	RONALD G. EMBRY, JR.	
SIGNATURE:	/Ronald G. Embry, Jr./	
DATE SIGNED:	03/12/2018	

## **Total Attachments: 2**

source=024446US01 US ASG 2018-01-18 (2)#page1.tif source=024446US01 US ASG 2018-01-18 (2)#page2.tif

**PATENT REEL: 045179 FRAME: 0899** 504815843

Atty Dkt No.: 024446US01

### ASSIGNMENT FOR APPLICATION FOR PATENT

#### WHEREAS:

Names and Addresses of Inventors:

1)	Steven C. H. HUNG 915 Mango Avenue Sunnyvale, California 94087	2)	Johanes S. SWENBERG 128 Mary Way Los Gatos, California 95032
3)	Wei LIU 5035 Moorpark Avenue San Jose, California 95129	4)	Houda GRAOUI 1630 Mantelli Drive Gilroy, California 95020

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

#### MODIFYING WORK FUNCTION OF A METAL FILM WITH A PLASMA PROCESS

for which application for Letters Patent in the United States was filed on January 18, 2018, under Serial No. 15/874,132, 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 substitute, conventional, 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.

PATENT REEL: 045179 FRAME: 0900

Atty Dkt No.: 024446US01

- 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)	1/18/2018	_ (DATE)	Steven C. H. Hung  Steven C. H. Hung
2)	1/18/2018	_ (DATE)	Johanes S. SWENBERG
3)	1/18/2018	_ (DATE)	DocuSigned by:  8AD3B0DEBFAF400  Wei LIU
4)	1/18/2018	_ (DATE)	Houda Graow 6787401EB6BA435 Houda GRAOUI