#### 504215165 02/06/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4261842

Stylesheet Version v1.2

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

#### **CONVEYING PARTY DATA**

Name	Execution Date
SEAN KANG	01/29/2017
JUNGMIN KO	01/24/2017
OLIVER LUERE	02/03/2017

# **RECEIVING PARTY DATA**

Name:	me: 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:	15350713

# CORRESPONDENCE DATA

Fax Number: (303)571-4321

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.

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KILPATRICK TOWNSEND & STOCKTON LLP / AMA **Correspondent Name:** 

Address Line 1: 1100 PEACHTREE STREET

Address Line 2: **SUITE 2800** 

Address Line 4: ATLANTA, GEORGIA 30309

ATTORNEY DOCKET NUMBER:	08042-024508USA-1025297	
NAME OF SUBMITTER:	SHANNON SERRANO	
SIGNATURE:	/Shannon Serrano/	
DATE SIGNED:	02/06/2017	

#### **Total Attachments: 4**

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> **PATENT** REEL: 041185 FRAME: 0862 504215165

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PATENT REEL: 041185 FRAME: 0863

Attorney Docket No.: 080042-024508USA-1025297

#### ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Sean Kang 5132 Holborn Way San Ramon, CA 94582	2)	Jungmin Ko 2410 Woodland Ave. San Jose, CA 95128
	Oliver Luere		Gail 303e, CA 93120
3)	801 S. Winchester Boulevard, Apt. 5400 San Jose, CA 95128		

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

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for which application for Letters Patent in the United States was filed on November 14, 2016, under Application No. 15/350,713, 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 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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- 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 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)	1/29 , 2017	1/2
2)	, 2017	Sean Kang
3)	, 2017	Jungmin Ko
		Oliver Luere

- 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 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.
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1)	, 2017	
	1/24	Sean Kang
2)	, 2017	Jungmin Ko
3)	, 2017	Oliver Luere

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1)		_, 2017	Sean Kang
2)		_, 2017	Jungmin Ko
3)	2/3	_, 2017	Oliver Luere

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