# 505252703 12/26/2018

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY DATA					
		Name	Execution Date		
XINYU BAO			08/31/2018		
ZHIYUAN YE			06/22/2018		
HUA CHUNG			10/26/2018		
RECEIVING PARTY DA	ТА				
Name:	APPLIED	) MATERIALS, INC.			
Street Address:	3050 BO	WERS AVENUE			
City:	SANTA C	CLARA			
State/Country:	CALIFOF	RNIA			
Postal Code:	95054				
PROPERTY NUMBERS	Total: 1		7		
Property Type		Number	_		
Application Number:	1	5926921			
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Email:		sh@pattersonsheridan.com, psdocke	eting@pattersonsheridan.com		
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ATTORNEY DOCKET NUMBER:		APPM/25286USP01	APPM/25286USP01		
NAME OF SUBMITTER:		CHAD M. DOUGHERTY	CHAD M. DOUGHERTY		
SIGNATURE:		/Chad M. Dougherty/	/Chad M. Dougherty/		
DATE SIGNED:		12/26/2018	12/26/2018		
Total Attachments: 4					
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source=025286USP01_Assignment#page2.tif					
source=025286USP01_Assignment#page3.tif					
source=025286USP01_Assignment#page4.tif					

# ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Xinyu BAO 42236 Blacow Rd. Fremont, California 94538	2)	Zhiyuan YE 1267 Water Lily Way San Jose, California 95129
3)	Hua CHUNG 4645 Piper Drive San Jose, California 95129		

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

#### A CO-DOPING PROCESS FOR N-MOS SOURCE DRAIN APPLICATION

for which application for Letters Patent in the United States was filed on March 20, 2018, under Serial No. 15/926,921, 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 Assigners 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: 047853 FRAME: 0515

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)	8/31/2018 1:40:22 PM CDT (DATE)	DocuSigned by: /Xiuyu Bao/ OBDES7775034458 Xinyu BAO
2)	(DATE)	Zhiyuan YE
3)	10/26/2018 11:22:29 рм сп (DATE)	Docusioned by: //true (Lury BDISORATAFFONES HUB CHUNG

# ASSIGNMENT FOR APPLICATION FOR PATENT

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Names and Addresses of Inventors:

1)	Xinyu BAO 42236 Blacow Rd. Fremont, California 94538	2)	Zhiyuan YE 1267 Water Lily Way San Jose, California 95129
3)	Hua CHUNG 4645 Piper Drive San Jose, California 95129		

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PATENT REEL: 047853 FRAME: 0517

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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)	(DATE)	Xinyu BAO
2)	6/22/2018 12:59:35 AM CD (DATE)	
3)	(DATE)	

Hua CHUNG

**RECORDED: 12/26/2018**