506915254 10/11/2021

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Yeishin Tung	10/09/2021
Byung Sung Kwak	04/15/2021
Robert Jan Visser	04/15/2021
Guoheng Zhao	06/16/2021
Todd J. Egan	04/15/2021

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:	17152688

CORRESPONDENCE DATA

Fax Number: (877)769-7945

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: +1 (404) 724-2773

Email: larson-herman@fr.com, apsi@fr.com
Correspondent Name: KIMBERLEY LARSON-HERMAN

Address Line 1: FISH & RICHARDSON P.C.

Address Line 2: P.O.BOX 1022

Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

ATTORNEY DOCKET NUMBER:	05542-1396001
NAME OF SUBMITTER:	KIMBERLEY LARSON-HERMAN
SIGNATURE:	/Kimberley Larson-Herman/
DATE SIGNED:	10/11/2021

Total Attachments: 4

PATENT REEL: 057753 FRAME: 0079

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PATENT REEL: 057753 FRAME: 0080

Case # 44017295US02/ATG/05542-1396001

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

Yeishin Tung
5747 West Walbrook Drive
San Jose, CA 95129
Byung Sung Kwak
9723 NW Henry Ct.
Portland, OR 97229
Robert Jan Visser
2320 Eastridge Avenue
Menlo Park, CA 94025
_

Guoheng Zhao	
408 Pratt Lane	
Palo Alto, CA 94306	
Todd J. Egan	
Todd J. Egan 145 Hillview Drive	

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

IN-LINE MONITORING OF OLED LAYER THICKNESS AND DOPANT CONCENTRATION for which application for Letters Patent in the United States was filed on 1/19/2021, under Serial

No. 17/152,688, 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 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 therefor and any Patents granted thereon,

PATENT REEL: 057753 FRAME: 0081 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.

Date:		
		YEISHIN TUNG
Date:	4/15/2021	Byung Sung kwak
_		BYUNG SUNG KWAK
Date:	4/15/2021	Robert Jan Visser
		ROBERT JAN VISSER
Date:	6/16/2021	SPC -
_		GUOHENG ZHAO
Date:	4/15/2021	todd J. Egan
		TODD J. EGAN

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Case # 44017295US02/ATG/05542-1396001

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

Yeishin Tung
5747 West Walbrook Drive
San Jose, CA 95129
Byung Sung Kwak
9723 NW Henry Ct.
Portland, OR 97229
Robert Jan Visser
2320 Eastridge Avenue
Menlo Park, CA 94025

Guoheng Zhao	
408 Pratt Lane	
Palo Alto, CA 94306	
Todd J. Egan	
145 Hillview Drive	
Fremont, CA 94536	

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- 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 therefor and any Patents granted thereon,

PATENT REEL: 057753 FRAME: 0083 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.

Date:	10/9/2021	Yeishin Tung
		YEISHIN TUNG
Date:		
		BYUNG SUNG KWAK
Date:		
		ROBERT JAN VISSER
Date:		
		GUOHENG ZHAO
Date:		
		TODD J. EGAN

PATENT REEL: 057753 FRAME: 0084

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