

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6971285

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Zihao Yang	06/04/2021
Mingwei Zhu	06/04/2021
Shriram Mangipudi	06/11/2021
Mohammad Kamruzzaman Chowdhury	08/30/2021
Shane Lavan	06/04/2021
Zhebo Chen	06/04/2021
Yong Cao	10/15/2021
Nag B. Patibandla	06/04/2021
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:	17178188
CORRESPONDENCE DATA	
Fax Number:	(877)769-7945
<i>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.</i>	
Phone:	(650) 839-5070
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:	05542-1436001
NAME OF SUBMITTER:	KIMBERLEY LARSON-HERMAN
SIGNATURE:	/Kimberley Larson-Herman/

PATENT

DATE SIGNED:	10/15/2021
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Total Attachments: 6

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Case # 44017991US04/ATG/05542-1436001

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

Zihao Yang 3575 Monroe Street, Apt. 323 Santa Clara, CA 95051
Mingwei Zhu 3185 Hostetter Road San Jose, CA 95132
Shriram Mangipudi 3410 Montgomery Drive, Apt. 426 Santa Clara, CA 95054
Mohammad Kamruzzaman Chowdhury 2714 East Valencia Drive Phoenix, AZ 85042

Shane Lavan 811 Grovewood Ct. San Jose, CA 95120
Zhebo Chen 1030 Belford Drive San Jose, CA 95132
Yong Cao 5406 Duesenberg Drive San Jose, CA 95123
Nag B. Patibandla 3951 Vierra Street Pleasanton, CA 94566

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

METHOD OF MAKING HIGH CRITICAL TEMPERATURE METAL NITRIDE LAYER
for which application for Letters Patent in the United States was filed on 2/17/2021, under Serial
No. 17/178,188, 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,

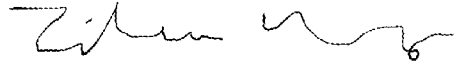
specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, 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, 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: 6/4/2021



ZIHAO YANG

Date: 6/4/2021



MINGWEI ZHU

Date: 6/11/2021



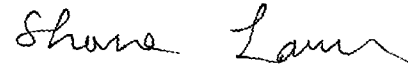
SHRIRAM MANGIPUDI

Date: 6/4/2021



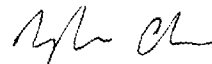
MOHAMMAD KAMRUZZAMAN CHOWDHURY

Date: 6/4/2021



SHANE LAVAN

Date: 6/4/2021



ZHEBO CHEN

Date:

YONG CAO

Date: 6/4/2021

Nag patibandla
NAG B. PATIBANDLA

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Case # 44017991US04/ATG/05542-1436001

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Names and Addresses of Inventors:

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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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IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

Date: _____
_____ ZIHAO YANG

Date: _____
_____ MINGWEI ZHU

Date: _____
_____ SHRIRAM MANGIPUDI

Date: 8/30/2021
_____ *Mohammad Kamruzzaman Chowdhury*
_____ MUHAMMAD KAMRUZZAMAN CHOWDHURY

Date: _____
_____ SHANE LAVAN

Date: _____
_____ ZHEBO CHEN

Date: 10/15/2021
_____ *[Signature]*
_____ YONG CAO

Date:

NAG B. PATIBANDLA

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