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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6833892

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
FANG RUAN	12/02/2020
DIWAKAR KEDLAYA	12/02/2020
TRUONG VAN NGUYEN	01/22/2021
MINGLE TONG	12/02/2020
SHERRY L. MINGS	04/02/2021
VENKATA SHARAT CHANDRA PARIMI	12/16/2020

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:	17088834	

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.

Phone: 303-571-4000

Email: rmaschka@kilpatricktownsend.com

KILPATRICK TOWNSEND & STOCKTON LLP Correspondent Name: Address Line 1: 1100 PEACHTREE STREET, SUITE 2800

Address Line 4: ATLANTA, GEORGIA 30309

ATTORNEY DOCKET NUMBER:	80042-44017458US2-1216704	
NAME OF SUBMITTER:	RACHAEL MASCHKA	
SIGNATURE:	/Rachael Maschka/	
DATE SIGNED:	07/27/2021	

Total Attachments: 4

PATENT REEL: 056993 FRAME: 0206

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PATENT REEL: 056993 FRAME: 0207 Attorney Docket No.: 080042-44017458US02-1216704

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Fang Ruan	2)	Diwakar Kedlaya
	Milpitas, CA		San Jose, CA
2)	Truong Van Nguyen	4)	Mingle Tong
3)	San Jose, CA		San Jose, CA
5)	Sherry L. Mings	6)	Venkata Sharat Chandra Parimi
	San Jose, CA		Sunnyvale, CA

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

CHAMBER COMPONENTS FOR GAS DELIVERY MODULATION

for which application for Letters Patent in the United States was filed on November 4, 2020, under Application No. 17/088,834, 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.
- 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.

PATENT REEL: 056993 FRAME: 0208

- 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.

DocuSigned by:

1)	December 2, 2020	Fang Ruan BB72B2A8DD3B441
	DATE	Fang Ruan
2)	December 2, 2020 DATE	Diwakar Kedlaya
	DATE	•
3)	January 22, 2021	Truong Van Myuyen 88747ED3D4B84B7
•	DATE	Truong Van Nguyen
4)	December 2, 2020	Docusigned by: Mingle Tong
	DATE	Mingle Tong
5)	DATE	Sherry L. Mings
		DocuSigned by:
6)	December 16, 2020	Venkata Sharat Chandra Parimi
	DATE	Venkata Sharat Chandra Parimi

Attorney Docket No.: 080042-44017458US02-1216704

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Fang Ruan Milpitas, CA	2)	Diwakar Kedlaya San Jose, CA
3)	Truong Van Nguyen San Jose, CA	4)	Mingle Tong San Jose, CA
5)	Sherry L. Mings Sachse, TX	6)	Venkata Sharat Chandra Parimi Sunnyvale, CA

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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, 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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- 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)	DATE	Fang Ruan
2)	DATE	Diwakar Kedlaya
3)	DATE	Truong Van Nguyen
4)	DATE	Mingle Tong
5)	4/2/2021 DATE	Sherry L. Mings
6)	DATE	Venkata Sharat Chandra Parimi

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RECORDED: 07/27/2021