

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT8013555

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HAO TANG	03/13/2023
KANG LUO	03/19/2023
ERICA CHEN	05/10/2022
YONGAN XU	05/10/2022
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:	18333290
CORRESPONDENCE DATA	
Fax Number:	(713)623-4846
<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:	713-623-4844
Email:	CSTEPANEK@PATTERSONSHERIDAN.COM, PSDOCKETING@PATTERSONSHERIDAN.COM
Correspondent Name:	PATTERSON & SHERIDAN, LLP
Address Line 1:	24 GREENWAY PLAZA
Address Line 2:	SUITE 1600
Address Line 4:	HOUSTON, TEXAS 77046
ATTORNEY DOCKET NUMBER:	44019849USC01
NAME OF SUBMITTER:	CHAD DOUGHERTY
SIGNATURE:	/CHAD DOUGHERTY/
DATE SIGNED:	06/19/2023
Total Attachments: 4	
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ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Hao TANG 1290 Tea Rose Circle San Jose, California 95131	2)	Kang LUO c/o Applied Materials, Inc., Law Dept., MS/1269 3050 Bowers Avenue Santa Clara, California 95054
3)	Erica CHEN c/o Applied Materials, Inc., Law Dept., MS/1269 3050 Bowers Avenue Santa Clara, California 95054	4)	Yongan XU c/o Applied Materials, Inc., Law Dept., M/s 1269 3050 Bowers Avenue Santa Clara, California 95054

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

A METHOD AND PROCESS TO IMPROVE GREYSCALE LITHOGRAPHY VARIATION

for which application for Letters Patent in the United States was filed on May 9, 2022, under Serial No. 17/740,116, 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 conventional, division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

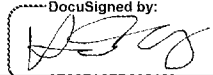
2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt 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

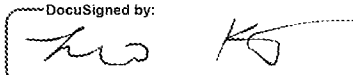
proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

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) 3/13/2023 (DATE) 
Hao TANG

2) 3/19/2023 (DATE) 
Kang LUO

3) _____ (DATE) _____
Erica CHEN

4) _____ (DATE) _____
Yongan XU

Atty Dkt No.: 44019849US02

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1) _____ (DATE) _____
Hao TANG

2) _____ (DATE) _____
Kang LUO

3) 5/10/2022 _____ (DATE) _____
Erica CHEN
DocuSigned by:
Erica CHEN
692A2A43A49F466...

4) 5/10/2022 _____ (DATE) _____
Yongan XU
DocuSigned by:
Yongan XU
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