PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XIAOBO SHI	01/23/2020
JOSEPH D. ROSE	01/22/2020
HONGJUN ZHOU	01/27/2020
KRISHNA P. MURELLA	01/22/2020
MARK LEONARD O'NEILL	01/23/2020

RECEIVING PARTY DATA

Name:	VERSUM MATERIALS US, LLC	
Street Address:	8555 SOUTH RIVER PARKWAY	
Internal Address:	PATENT DEPT.	
City:	TEMPE	
State/Country:	ARIZONA	
Postal Code:	85284	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16711818

CORRESPONDENCE DATA

Fax Number: (610)862-9626

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: 484-246-5768

Email: versumpatents@versummaterials.com

Correspondent Name: LISA HOFFMANN

Address Line 1: 7350 TILGHMAN STREET, SUITE 104

Address Line 2: PATENT DEPT.

Address Line 4: ALLENTOWN, PENNSYLVANIA 18106-9000

ATTORNEY DOCKET NUMBER:	09296 USA
NAME OF SUBMITTER:	LINA YANG, PHD
SIGNATURE:	/Lina Yang, PhD/
DATE SIGNED:	01/29/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT

REEL: 051657 FRAME: 0694

Total Attachments: 2

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PATENT REEL: 051657 FRAME: 0695

ASSIGNMENT & DECLARATION

For value received, we, Xiaobo Shi, Joseph D. Rose, Hongjun Zhou, Krishna P. Murella and Mark Leonard O'Neill, hereby sell, assign, and transfer to **VERSUM MATERIALS US, LLC**, a corporation of the State of Delaware, having an office at 8555 South River Parkway, Tempe, AZ 85284, the entire right, title, and interest in and to the invention relating to

Low Oxide Trench Dishing Shallow Trench Isolation Chemical Mechanical Planarization Polishing

described in our application for Letters Patent of the United States (identified by Docket No. 09296 USA; and/or Appl. No. 16/711,818; filed on December 12, 2019), in and to all Letters Patent which may be issued upon said application, in and to any divisional or reissue applications based thereon, and in and to all Letters Patent upon said invention or improvements which may be granted in foreign countries. We hereby also assign and convey to said **VERSUM MATERIALS US, LLC**, all the rights accruing to us by virtue of the International Convention for the Protection of Industrial Property (Art. 4), including the right to apply for and to have patents issued in its own name.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and the Officials of the Patent Offices of all other countries to issue the Letters Patent of their respective countries to said **VERSUM MATERIALS US, LLC**, as assignee of the entire right, title, and interest in and to the same.

And we hereby promise and agree to execute all papers and perform all acts necessary to secure to and vest in said **VERSUM MATERIALS US, LLC**, its successors and assigns, the rights conveyed as herein set forth.

And I hereby authorize the above-mentioned Assignee or its legal representative to insert in the instrument the application serial number of aforesaid application or any other information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office.

And we hereby declare that the above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

(L.S.)

Xiaobo Shi

Joseph D. Rose

Date

(L.S.)

Date

PATENT REEL: 051657 FRAME: 0696

Hongjun Zhou (L.S.)	(L.S.) Krishna P. Murella
of wife when	
Date	Date
Mark Leonard O'Neill (L.S.)	
Date	

PATENT REEL: 051657 FRAME: 0697

RECORDED: 01/29/2020