PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STEVEN GRUMBINE	03/05/2014
JEFFREY DYSARD	04/10/2014
LIN FU	03/06/2014
WILLIAM WARD	03/06/2014
GLENN WHITENER	03/10/2014

RECEIVING PARTY DATA

Name:	CABOT MICROELECTRONICS CORPORATION	
Street Address:	870 North Commons Drive	
City:	Aurora	
State/Country:	ILLINOIS	
Postal Code:	60504	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14203693

CORRESPONDENCE DATA

Fax Number: (630)499-2654

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: (630) 375-2033

Email: CMC Prosecution@cabotcmp.com

Correspondent Name: THOMAS OMHOLT

Address Line 1: CABOT MICROELECTRONICS CORPORATION

Address Line 2: 870 NORTH COMMONS DRIVE

Address Line 4: AURORA, ILLINOIS 60504

ATTORNEY DOCKET NUMBER:	100557C
NAME OF SUBMITTER:	THOMAS E OMHOLT
SIGNATURE:	/teo/
DATE SIGNED:	09/13/2014

Total Attachments: 2

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502974933 PATENT REEL: 033735 FRAME: 0642

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PATENT REEL: 033735 FRAME: 0643

Docket No. 100557C

ASSIGNMENT

WHEREAS, we, Steven GRUMBINE, of Aurora, Illinois, Jeffrey DYSARD, of St.

Charles, Illinois, Lin FU, of Naperville, Illinois, William WARD, of Glen Ellyn, Illinois, and Glenn

WHITENER of Batavia, Illinois, have invented and own a certain invention entitled

COMPOSITION FOR TUNGSTEN CMP for which invention we have executed an application

(provisional or non-provisional) for a United States patent, filed on 11-March-2014, under

Application No. 14/203,693; and

WHEREAS, Cabot Microelectronics Corporation, of 870 North Commons Drive, Aurora,

Illinois, 60504, (hereinafter referred to as Assignee), is desirous of acquiring the entire domestic and

foreign right, title, and interest in and under the invention described in the patent application;

NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency of

which are hereby acknowledged, we assign and transfer to the Assignee and the Assignee's legal

representatives, successors and assigns the full and exclusive rights in and to the invention in the

United States and every foreign country and the entire right, title, and interest in and to the patent

application and other such applications (e.g., provisional applications, non-provisional applications,

continuations, continuations-in-part, divisionals, reissues, renewals, and extensions) that may be

filed in the United States and every foreign country on the invention, and the patents or extensions

thereof, both foreign and domestic, that may issue thereon, and we do hereby authorize and request

the Commissioner of Patents and Trademarks to issue United States patents to the above-mentioned

Assignce agreeably with the terms of this assignment document.

WE HEREBY AUTHORIZE the Assignee to insert in this assignment document the filing

date and serial number of the application if the date and number are unavailable at the time this

document is executed.

UPON SAID CONSIDERATION, we convey to the Assignee the right to make

application in its own behalf for protection of the invention in countries foreign to the United States

and to claim under the International Convention and/or other international arrangement for any such

application the date of the United States application (or any other application on the invention) to

gain priority with respect to other applications.

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PATENT REEL: 033735 FRAME: 0644 WE DO HEREBY COVENANT and agree with the Assignee that we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that we will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, renewal, or extended patents of the United States or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, we have hereunder set our hands on the dates shown below.

3-5-/4 Date	Steven GRUMBINE
4-10-14	
Date	Jeffréy DYSARD
3-6-14	
Date	Lin FÜ
3-6-14	- Day Day C
Date	William WARD

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3/10/14 Date