

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4946875

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
THOMAS H. BAUM	04/25/2018
PHILIP S.H. CHEN	04/24/2018
ROBERT L. WRIGHT	04/25/2018
BRYAN HENDRIX	04/25/2018
SHUANG MENG	04/26/2018
RICHARD ASSION	05/01/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ENTEGRIS, INC.
<b>Street Address:</b>	129 CONCORD ROAD
<b>City:</b>	BILLERICA
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01821
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15963656
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Phone:</b>	978-436-6500
<b>Email:</b>	IP_Prosecution@entegris.com
<b>Correspondent Name:</b>	ENTEGRIS, INC.
<b>Address Line 1:</b>	129 CONCORD ROAD
<b>Address Line 4:</b>	BILLERICA, MASSACHUSETTS 01821
<b>ATTORNEY DOCKET NUMBER:</b>	201600080 US CIP
<b>NAME OF SUBMITTER:</b>	ROBERT M. AMICI
<b>SIGNATURE:</b>	/Robert M. Amici/
<b>DATE SIGNED:</b>	05/04/2018
<b>Total Attachments: 7</b>	

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ASSIGNMENT

WHEREAS, we,

**Thomas H. Baum** of 129 Concord Road, Billerica, MA 01821, U.S.;

**Philip S.H. Chen** of 129 Concord Road, Billerica, MA 01821, U.S.;

**Robert Wright** of 129 Concord Road, Billerica, MA 01821, U.S.;

**Bryan Hendrix** of 129 Concord Road, Billerica, MA 01821, U.S.;

**Shuang Meng** of 129 Concord Road, Billerica, MA 01821, U.S.;

**Richard Assion** of 129 Concord Road, Billerica, MA 01821, U.S.;

("Assignors"), have invented certain new and useful improvements in **CVD Mo DEPOSITION BY USING MoOC14** for which an application for Letters Patent of the United States has been made, and which may be identified in the United States Patent Office by Application No. **15/963,656** filed **April 26, 2018**.

WHEREAS, ENTEGRIS, INC., ("Assignee"), a business entity organized and existing under the laws of the State of Delaware, and having its principal offices at 129 Concord Road, Billerica, Massachusetts 01821, is desirous of acquiring the entire right, title and interest in and to said invention, said application and in, to and under any and all Letters Patent to be obtained therefor,

NOW, THEREFORE, for and in consideration of good and valuable consideration paid by Assignee to Assignors, the receipt and sufficiency of which is hereby acknowledged by us, we have sold, assigned and transferred, and by these presents do hereby sell, assign and transfer unto the said Assignee, its successors and assigns, our entire right, title and interest in and to said invention, said application, all applications claiming priority to said application including all divisions, continuations or renewals thereof, and the Letters Patent, both foreign and domestic, that may or shall issue, therefrom including all reissues or extensions of such patents including all of our rights under the International Convention and further including the right to sue, counterclaim and recover for past, present and future infringement of the rights assigned or to be assigned, as fully and entirely as the same would have been held by the Assignors if this assignment had not been made, and we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to the above mentioned Assignee in accordance herewith.

We authorize said Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of said United States application and/or otherwise take advantage of the provisions of the International Convention.

Upon said consideration we do hereby covenant and agree with the said Assignee, its successors and assigns, that we will not execute in writing or do any act whatsoever conflicting

with these presents, and that we or our executors or administrators will at any time upon request, without further or additional consideration, but at the expense of the said Assignee, its successors and assigns, execute such additional writings and do such additional acts as said Assignee, its successors and assigns, may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, or of any and all foreign countries on said invention, and in enforcing any rights occurring as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents.

Date: 25/04/2018  
Day/Month/Year

Thomas H. Baum  
Thomas H. Baum

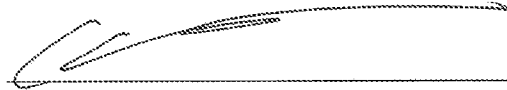
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Day/Month/Year

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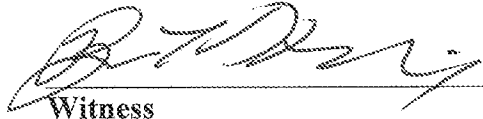
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Day/Month/Year

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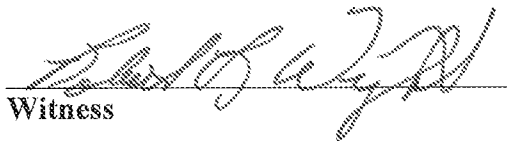
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Philip S.H. Chen

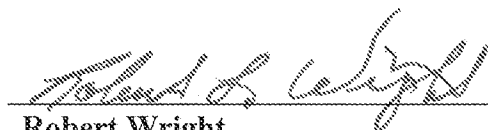
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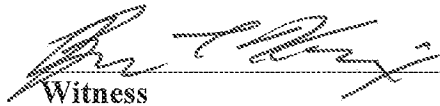
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Day/Month/Year

  
Witness


Date: 25/04/2018  
Day/Month/Year

  
Robert Wright

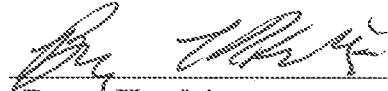
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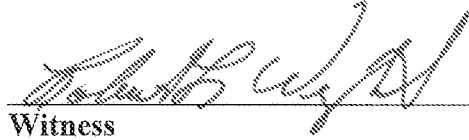
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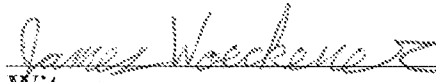
Date: 25 Apr 18  
Day/Month/Year

  
Bryan Hendrix

Date: 25 / 4 / 2018  
Day/Month/Year

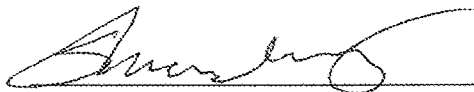
  
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Date: 25 April / 2018  
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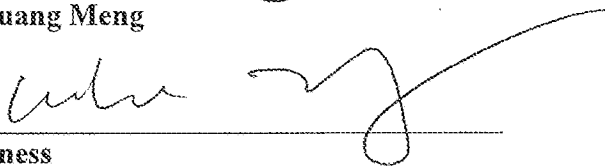
  
Witness

Application no. [xx/xxx,xxx]

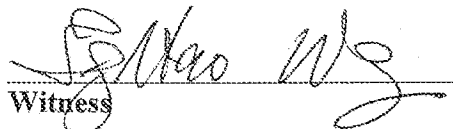
Date: 26/4/2018  
Day/Month/Year

  
Shuang Meng

Date: 26/4/2018  
Day/Month/Year

  
Witness

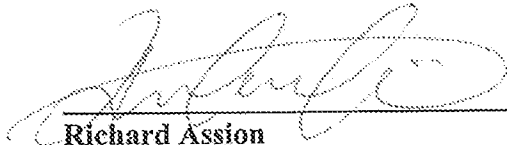
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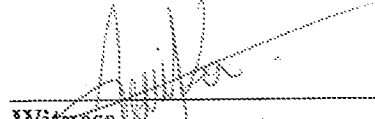


Application no. [xx/xxx,xxx]


Date: 5/1/2018  
Day/Month/Year

  
Richard Assion

Date: 5/1/2018  
Day/Month/Year

  
Witness

Date: 5/1/2018  
Day/Month/Year

  
Witness