

<b>PATENT ASSIGNMENT COVER SHEET</b>
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 Stylesheet Version v1.2

EPAS ID: PAT5688065

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MARK V. SMITH	04/15/2019
NICHOLAS THELEN	04/15/2019
MATTHEW A. FULLER	04/15/2019
MICHAEL C. ZABKA	04/15/2019
SUNG IN MOON	04/22/2019
JOHN P. PUGLIA	04/15/2019
<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>
<b>Application Number:</b>	16552005
<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>	E000189 US
<b>NAME OF SUBMITTER:</b>	HEIDI M. ARCHER
<b>SIGNATURE:</b>	/Heidi M. Archer/
<b>DATE SIGNED:</b>	08/27/2019
<b>Total Attachments: 6</b>	

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**ASSIGNMENT**

WHEREAS, we,

**Mark Vincent SMITH** of 4110 Bobbie Kay Place, Colorado Springs, CO, 80908, U.S.;

**Nicholas THELEN** of 1713 Arbor Way, Colorado Springs, CO, 80905, U.S.;

**Matthew Aaron FULLER** of 4910 Sunbird Cliffs Drive, Colorado Springs, CO, 80919, U.S.;

**Michael C. ZABKA** of 24496 W. Cedar Lake Drive, New Prague, MN, 56071, U.S.;

**Sung In MOON** of 1979 Schoolmaster Drive, Chaska MN, 55318, U.S.;

**John Paul PUGLIA** of 64 Pierce Road, Townsend, MA, 01469, U.S.;

(“Assignors”), have invented certain new and useful improvements in **PURGE DIFFUSER** 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. **62/837,389** filed **April 23, 2019**.

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: 15/4/2019  
Day/Month/Year

Mark N. Smith  
Mark Vincent SMITH

Date: 15/4/2019  
Day/Month/Year

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Date: 15/4/2019  
Day/Month/Year

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Date: 15/04/2019  
Day/Month/Year

Nicholas Thelen  
Nicholas THELEN

Date: 15/4/2019  
Day/Month/Year

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Matthew A. Fuller  
Matthew Aaron FULLER

Date: 15/4/2019  
Day/Month/Year

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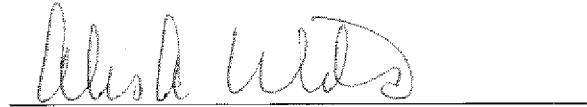
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**Michael C. ZABKA**

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**Sung In MOON**

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**John Paul PUGLIA**

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**Michael C. ZABKA**

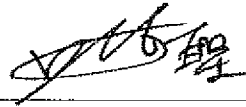
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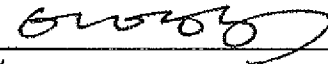
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**John Paul PUGLIA**

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**Michael C. ZABKA**

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*John Paul PUGLIA*  
**John Paul PUGLIA**

Date: 4/15/19  
Day/Month/Year

*ATB*  
**Witness**

Date: 4/15/19  
Day/Month/Year

*Heather Murphy*  
**Witness**