

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5295165

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	MERGER
<b>EFFECTIVE DATE:</b>	11/04/2015

**CONVEYING PARTY DATA**

Name	Execution Date
ADVANCED TECHNOLOGY MATERIALS, INC.	11/04/2015

**RECEIVING PARTY DATA**

<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

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	15295662

**CORRESPONDENCE DATA****Fax Number:**

*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:** 978-436-6500  
**Email:** ip\_prosecution@entegris.com  
**Correspondent Name:** ENTEGRIS, INC.  
**Address Line 1:** 129 CONCORD ROAD  
**Address Line 4:** BILLERICA, MASSACHUSETTS 01821

<b>ATTORNEY DOCKET NUMBER:</b>	200200583 CIPCON2DIVCON5
<b>NAME OF SUBMITTER:</b>	HEIDI M. ARCHER
<b>SIGNATURE:</b>	/Heidi M. Archer/
<b>DATE SIGNED:</b>	12/20/2018

**Total Attachments: 3**

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# Delaware

The First State

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I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"ADVANCED TECHNOLOGY MATERIALS, INC.", A DELAWARE CORPORATION,

WITH AND INTO "ENTEGRIS, INC." UNDER THE NAME OF "ENTEGRIS, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE ON THE FOURTH DAY OF NOVEMBER, A.D. 2015, AT 11:12 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



A handwritten signature in black ink, appearing to read "JBULLOCK", written over a horizontal line.

3941572 8100M  
SR# 20150770761

Authentication: 10359982  
Date: 11-04-15

You may verify this certificate online at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

**PATENT**  
**REEL: 047835 FRAME: 0601**

STATE OF DELAWARE  
CERTIFICATE OF OWNERSHIP  
SUBSIDIARY INTO PARENT  
Section 253  
CERTIFICATE OF OWNERSHIP  
MERGING  
ADVANCED TECHNOLOGY MATERIALS, INC.  
INTO  
ENTEGRIS, INC.

(Pursuant to Section 253 of the General Corporation Law of Delaware)

Entegris, Inc., a Delaware corporation incorporated on the 17th day of March, 2005, pursuant to the provisions of the General Corporation Law of the State of Delaware (the "Corporation");

**DOES HEREBY CERTIFY** that the Corporation owns 100% of the capital stock of Advanced Technology Materials, Inc., a corporation originally incorporated on the 8<sup>th</sup> day of May, 1987, converted into Advanced Technology Materials, LLC, a Delaware limited liability company, on October 31, 2015 and converted into Advanced Technology Materials, Inc., a Delaware corporation, on November 3, 2015, pursuant to the provisions of the General Corporation Law of the State of Delaware, and that the Corporation, by a resolution of its Board of Directors duly adopted by unanimous consent at a meeting held on 7th day of October, 2015, determined to merge into itself Advanced Technology Materials, Inc., effective as of the filing of this Certificate of Ownership with the Secretary of State of the State of Delaware, which resolution is in the following words to wit:

**RESOLVED:** That the merger of this Corporation's wholly owned subsidiary, Advanced Technology Materials, Inc. with and into this Corporation in accordance with Section 253 of the Delaware General Corporation Law, be, and it hereby is, approved, and the Senior Vice President & General Counsel be, and he hereby is, authorized and empowered to execute, acknowledge and file with the Secretary of State of Delaware a certificate of ownership and merger setting forth this resolution in order to effect such merger.

*[The remainder of the page has intentionally been left blank.]*

IN WITNESS WHEREOF, Entegris, Inc. has caused this certificate to be signed by an authorized officer this 4th day of November, 2015 A.D.

By: Peter W. Walcott  
Authorized officer

Name: Peter W. Walcott

Title: Senior Vice President and Secretary