

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5374301

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
APPLIED MATERIALS GMBH & CO. KG	07/27/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	APPLIED MATERIALS, INC.
<b>Street Address:</b>	3050 BOWERS AVENUE
<b>City:</b>	SANTA CLARA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95054
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16168672
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<b>NAME OF SUBMITTER:</b>	STEVEN H. VERSTEEG
<b>SIGNATURE:</b>	/STEVEN H. VERSTEEG/
<b>DATE SIGNED:</b>	02/13/2019
<b>Total Attachments: 4</b>	
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## ASSIGNMENT

WHEREAS, Applied Materials Web Coating GmbH, having a principal place of business at Siemensstrasse 100, 63755 Alzenau, GERMANY (hereinafter referred to as ASSIGNOR), is the owner of all right, title and interest in, to, and under the patents and patent applications identified in the attached Annex A, and the inventions disclosed therein.

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, CA 95054, U.S.A. (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire right, title and interest in, to, and under the patents and patent applications identified in the attached Annex A, and the inventions disclosed therein.

NOW, THEREFORE, for good and valuable consideration acknowledged by said ASSIGNORS to have been received in full from said ASSIGNEE, ASSIGNOR, hereby sells, assigns, transfers and conveys to ASSIGNEE or its successor and assigns, the entire right, title and interest in, to, and under the patents and patent applications identified in the attached Annex A, and the inventions disclosed therein, and any related patent applications and all divisions, renewals and continuations thereof, and all patents which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models and designs which may hereafter be filed for the patents, patent applications, and inventions in any country or countries other than the countries of the patents and patent applications in Annex A together with the right to file such applications and the right to claim for the same, the priority rights derived from the patents and patent applications, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on patents and patent applications as aforesaid, to issue the same to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

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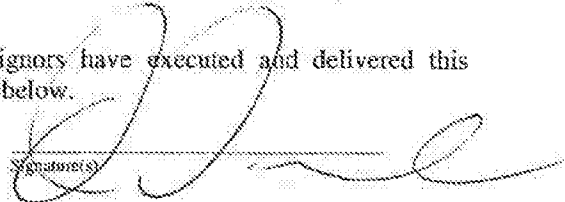
Date: 31 2016

ASSIGNOR hereby covenants and agrees that ASSIGNOR has full right to convey the entire interest assigned, and that ASSIGNOR has not executed, and will not execute, any agreement in conflict herewith.

ASSIGNOR hereby further covenants and agrees that ASSIGNOR will communicate to ASSIGNEE, its successor, legal representatives and assigns, any facts known to ASSIGNOR regarding the inventions, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for the inventions in all countries all at ASSIGNEE'S expense.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignees on the dates indicated below.

27.7.17  
Date

  
Signature(s)

Dr. Christoph Daube

Typed or printed name(s)

Managing Director of Applied Materials Web Coating GmbH

Title(s) of person(s) signing

Applied Materials Web Coating GmbH

Assignor name

August 7, 2017  
Date

  
Signature(s)

Raymond K Kwong

Typed or printed name(s)

Corporate Vice President & Assistant Secretary

Title(s) of person(s) signing

Applied Materials Inc.

Assignee name

08/31/2016



ANNEX A @ December 31, 2016 WEB

AMAT Refs.	Country	Official No.	Title	Z&P Refs.
021028PCTP/ALZ/W/VAR	Patent Cooperation Treaty	WO2015/149857	Sputtering arrangement for sputtering a material on a substrate surface	APP-19058P-WO
021911PCTP/ALZ/W/PACK	Patent Cooperation Treaty	WO2016/034250	Multiple use cryo cooler in vacuum processing system	APP-19672P-WO
021797PCTP/ALZ/W/PACK	Patent Cooperation Treaty	WO2016/078939	Apparatus and method for treatment of flexible substrates using an electron beam	APP-19681P-WO
022927EPCE/ALZ/W/CVD WEB	European Patent Office	3118349	Deposition source, deposition apparatus and method of operating thereof	APP-20990P-EP
023189PCTP/ALZ/W/VAR	Patent Cooperation Treaty	WO2017/054899	Method and apparatus for manufacturing a flexible layer stack and flexible layer stack	APP-21188P-WO
023219PCTP/ALZ/W/CVD WEB	Patent Cooperation Treaty	PCT/EP2016/050823	Optical inspection system, processing system for processing of a material on a flexible substrate, and methods of inspecting a flexible substrate	APP-21187P-WO
023269PCTP/ALZ/W/VAR	Patent Cooperation Treaty	WO2017/071748	Apparatus for processing of a material on a substrate, cooling arrangement for a processing apparatus, and method for measuring properties of a material processed on a substrate	APP-21197P-WO
023498PCTP/ALZ/W/VAR	Patent Cooperation Treaty	PCT/EP2015/080841	Apparatus for processing a thin film on a substrate, and method for providing a gas tight process separating wall	APP-21368P-WO
016741PCTP/ALZ/W/PACK	Patent Cooperation Treaty	WO2013/089204	Heat exchanger for cooling a heating tube and method thereof	APP-16895P-WO

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016614PCT/PALZMVAR	Patent Cooperation Treaty	WO2013/079108	Closed loop control	APP-16896P-WO
024268PCT/PALZMVAR	Patent Cooperation Treaty	PCT/EP2016/065558	Deposition apparatus for coating a flexible substrate and method of coating a flexible substrate	APP-21972P-WO
023837PCT/PALZMPACK	Patent Cooperation Treaty	PCT/EP2016/065554	Processing system and method for processing a flexible substrate	APP-21974P-WO