

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7421129

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ERIC JAMES SHERO	02/07/2020
PAUL MA	02/07/2020
BED PRASAD SHARMA	01/27/2020
SHANKAR SWAMINATHAN	03/02/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ASM IP HOLDING B.V.
<b>Street Address:</b>	VERSTERKERSTRAAT 8
<b>City:</b>	ALMERE
<b>State/Country:</b>	NETHERLANDS
<b>Postal Code:</b>	1322 AP
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17859929
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(602)382-6070
<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>	(602) 382-6000
<b>Email:</b>	dgilden@swlaw.com
<b>Correspondent Name:</b>	SNELL & WILMER L.L.P.
<b>Address Line 1:</b>	400 EAST VAN BUREN STREET, SUITE 1900
<b>Address Line 2:</b>	ONE ARIZONA CENTER
<b>Address Line 4:</b>	PHOENIX, ARIZONA 85004-2202
<b>ATTORNEY DOCKET NUMBER:</b>	81048.12417
<b>NAME OF SUBMITTER:</b>	DIANE GILDEN
<b>SIGNATURE:</b>	/Diane Gilden/
<b>DATE SIGNED:</b>	07/07/2022
<b>Total Attachments: 4</b>	
source=8104812417_ASN#page1.tif	
source=8104812417_ASN#page2.tif	

source=8104812417\_ASN#page3.tif

source=8104812417\_ASN#page4.tif

Filing Date: February 26, 2020

Title: METHOD FOR SELECTIVE DEPOSITION OF SILICON NITRIDE LAYER AND  
STRUCTURE INCLUDING SELECTIVELY-DEPOSITED SILICON NITRIDE LAYER

### ASSIGNMENT

WHEREAS, ERIC JAMES SHERO, a citizen of the United States and a resident of Phoenix, Arizona; PAUL MA, a citizen of the United States and a resident of Scottsdale, Arizona; BED PRASAD SHARMA, a citizen of the United States of America and a resident of Gilbert, Arizona; SHANKAR SWAMINATHAN, a citizen of the United States of America and a resident of Phoenix, Arizona,

(collectively, “WE” or “ASSIGNOR”) have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to METHOD FOR SELECTIVE DEPOSITION OF SILICON NITRIDE LAYER AND STRUCTURE INCLUDING SELECTIVELY-DEPOSITED SILICON NITRIDE LAYER (collectively, the “INVENTIONS”) for which WE have executed and/or may execute one or more patent applications therefore; and

WHEREAS, ASM IP HOLDING B.V. (hereinafter “ASSIGNEE”), a corporation having a place of business at Versterkerstaat 8, Almere, 1322 AP, Netherlands, desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all patent applications therefore, and all patents that have granted or may be granted hereafter thereon, including, but not limited to, those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed and transferred, and by these presents do hereby sell, assign, convey and transfer, unto ASSIGNEE, its successors, its legal representatives and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefore that may have been filed or may be filed hereafter for said INVENTIONS (including but not limited Application No(s). 16/801,910, filed on February 26, 2020, as Docket No. PAT-AM-0904-US-NP (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known)) and all rights of priority under International Conventions, Treaties, and Agreements, all utility applications, national phase applications, utility model applications, divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications and design applications thereof, and all issued patents which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon;

Application Serial No.: \_\_\_\_\_

Docket No.: PAT-AM-0904-US-NP

Filing Date: \_\_\_\_\_

Title: METHOD FOR SELECTIVE DEPOSITION OF SILICON NITRIDE LAYER AND  
STRUCTURE INCLUDING SELECTIVELY-DEPOSITED SILICON NITRIDE LAYER

AND WE DO HEREBY authorize and request any Official of any country or countries whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to ASSIGNEE, its successors, its legal representatives, and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover and retain damages and any ongoing or prospective royalties to which WE may be entitled, or form any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives, and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries.

EXECUTED as of the date(s) below by ASSIGNOR:

ERIC JAMES SHERO

Signature

Date

PAUL MA

Signature

Date

BED PRASAD SHARMA

Signature

Date

SHANKAR SWAMINATHAN

Signature

Date

Application Serial No.: \_\_\_\_\_

Docket No.: PAT-AM-0904-US-NP

Filing Date: \_\_\_\_\_

Title: METHOD FOR SELECTIVE DEPOSITION OF SILICON NITRIDE LAYER AND  
STRUCTURE INCLUDING SELECTIVELY-DEPOSITED SILICON NITRIDE LAYER

AND WE DO HEREBY authorize and request any Official of any country or countries whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to ASSIGNEE, its successors, its legal representatives, and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover and retain damages and any ongoing or prospective royalties to which WE may be entitled, or form any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives, and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries.

EXECUTED as of the date(s) below by ASSIGNOR:

ERIC JAMES SHERO

\_\_\_\_\_  
Signature

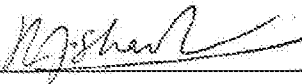
\_\_\_\_\_  
Date

PAUL MA

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

BED PRASAD SHARMA

\_\_\_\_\_  
  
Signature

\_\_\_\_\_  
01/27/2020  
Date

SHANKAR SWAMINATHAN

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Application Serial No.: \_\_\_\_\_

Docket No.: PAT-AM-0904-US-NP

Filing Date: \_\_\_\_\_

Title: METHOD FOR SELECTIVE DEPOSITION OF SILICON NITRIDE LAYER AND  
STRUCTURE INCLUDING SELECTIVELY-DEPOSITED SILICON NITRIDE LAYER

AND WE DO HEREBY authorize and request any Official of any country or countries whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to ASSIGNEE, its successors, its legal representatives, and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover and retain damages and any ongoing or prospective royalties to which WE may be entitled, or form any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives, and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries.

EXECUTED as of the date(s) below by ASSIGNOR:

ERIC JAMES SHERO

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

PAUL MA

\_\_\_\_\_  
Signature


\_\_\_\_\_  
Date

BED PRASAD SHARMA

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

SHANKAR SWAMINATHAN

  
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

03/02/2020