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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PAUL MA	06/22/2021
ROGHAYYEH LOTFI	07/08/2021
JAEBEOM LEE	07/07/2021
ERIC CHRISTOPHER STEVENS	07/14/2021
AMIT MISHRA	07/06/2021

RECEIVING PARTY DATA

Name:	ASM IP HOLDING B.V.
Street Address:	VERSTERKERSTRAAT 8
City:	ALMERE
State/Country:	NETHERLANDS
Postal Code:	1322 AP

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17376238

CORRESPONDENCE DATA

Fax Number: (602)470-2434

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: 6024705707

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Correspondent Name: PATRICK LEE

Address Line 1: 3440 E. UNIVERSITY DRIVE
Address Line 4: PHOENIX, ARIZONA 85034

ATTORNEY DOCKET NUMBER:	100267US02
NAME OF SUBMITTER:	MICHELLE SYMPSON
SIGNATURE:	/Michelle Sympson/
DATE SIGNED:	07/31/2021

Total Attachments: 6

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PATENT REEL: 057045 FRAME: 0215 source=100267US02 Assignment Executed#page2.tif
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PATENT REEL: 057045 FRAME: 0216 Application Serial No.: 17/376,238 Docket No.: 100267US02

Filing Date: July 15, 2021

Title: METHOD AND SYSTEM FOR DEPOSITING MOLYBDENUM LAYERS

ASSIGNMENT

WHEREAS, Paul Ma, a citizen of United States of America and a resident of Scottsdale, Arizona; Roghayyeh Lotfi, a citizen of Iran and a resident of Scottsdale, Arizona; Jaebeom Lee, a citizen of Korea, Republic of (KR) and a resident of Tempe, Arizona; Eric Christopher Stevens, a citizen of United States of America and a resident of Tempe, Arizona; Amit Mishra, a citizen of United States of America and a resident of Tempe, 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 AND SYSTEM FOR DEPOSITING MOLYBDENUM LAYERS (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 Versterkerstraat 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). 17/376,238, filed on July 15, 2021 as Docket No. 100267US02 (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;

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;

Application Serial No.;	Docket No.: 100267US02
Filing Date: Title: METHOD AND SYSTEM FOR DEPOS	SITING MOLYBDENUM LAYERS
legal representatives, and its assigns all claims relating to any violation(s) of any of the rights prior to the date of assignment to said ASSIGN	assigned hereby that have or may have accrued IEE, or may accrue hereafter, including, but not ect, recover and retain damages and any ongoing ntitled, or form any settlement or agreement
AND WE HEREBY covenant and agree that W ASSIGNEE, its successors, its legal representat respecting said INVENTIONS, and will testify execute all applications and certificates, make a all lawful assistance to said ASSIGNEE, its sucto obtain and enforce patent protection for said	tives, and its assigns, any facts known to us in any legal proceeding, sign all lawful papers, all rightful declarations and/or oaths, and provide eccessors, its legal representatives, and its assigns,
EXECUTED as of the date(s) below by ASSIG	NOR:
Paul Ma	06/25/201
Signature	Date
Roghayyeh Lotfi	
Signature	Date
Jaebeom Lee	
Signature	Date
Eric Christopher Stevens	
Signature	Date
Amit Mishra	
Signature	Date

	- 1002/71/202
Application Serial No.:	Docket No.: 100267US02
Filing Date: Title: METHOD AND SYSTEM FOR DE	POSITING MOLYBDENUM LAYERS
legal representatives, and its assigns all elements of any violation(s) of any of the reprior to the date of assignment to said ASS limited to the right to sue for, seek, obtain or prospective royalties to which WE may related to any of said patents before or after	
ASSIGNEE, its successors, its legal repre- respecting said INVENTIONS, and will in	hat WE will communicate promptly to said sentatives, and its assigns, any facts known to us estify in any legal proceeding, sign all lawful papers, take all rightful declarations and/or oaths, and providits successors, its legal representatives, and its assigns read INVENTIONS in all countries.
EXECUTED as of the date(s) below by A	SSIGNOR:
Paul Ma	
Signature	Date
Roghayych Lotfi Loth Signature	07/08/2021 Date
Jaebeen Lee	
Signature	Date
Eric Christopher Stevens	
Signature	Date
Agus Mishra	

Signature

Date

Application Serial No.:				Į.	Jocket	No.: 100	267US02
Filing Date:Filing Date:FILE Title: METHOD AND SYSTEM FI	OR DEPOSITI	NG MO	LYBD	ENUM	HAŸI	RS	
AND WE DO HEREBY sell, assign legal representatives, and its assign relating to any violation(s) of any oprior to the date of assignment to salimited to the right to sue for, seek, or prospective royalties to which W related to any of said patents before	s all claims for If the rights assi and ASSIGNEE obtain, collect, E may be entit	damage: gned her , or may recover led, or fo	and all reby the accrue and rea	l reme at have hereal ain da	dies ari or may ter, inc mages :	sing out	of or crued out not engoing
AND WE HEREBY covenant and a ASSIGNEE, its successors, its lega respecting said INVENTIONS, and execute all applications and certific all lawful assistance to said ASSIG to obtain and enforce patent protect EXECUTED as of the date(s) below Paul Ma	I representative I will testify in a rates, make all r NEE, its succestion for said IN	s, and its any legal ightful d isors, its VENTIC	i assigr proced eclarat legal n	is, any eding. : ions an epreser	facts ki sign all id/or oa itatives	nown to lawful p ths, and	apers, provide
Signature			Date				
Roghayyeh Lotfi							
Signature			Date	12			~ .,
Jackeom Lee			1	-7	-202	; i ; }	
Signature			Date	***************************************		*************	mi di Europi
Eric Christopher Stevens							
Signature			Date			***************************************	
Amit Mishra							
Signature			Date				

Application Serial No.:	Docket No.: 100267US02
Filing Date: Title: METHOD AND SYSTEM FOR DEPOSIT	CYNICS NACH SANSSNING IN A E A MATTING
THE METHOD AND SYSTEM FOR DEPOSIT	TING MOLYBDENUM LAYERS
AND WE DO HEREBY sell, assign, transfer, an legal representatives, and its assigns all claims for relating to any violation(s) of any of the rights as prior to the date of assignment to said ASSIGNE limited to the right to sue for, seek, obtain, collector prospective royalties to which WE may be entirelated to any of said patents before or after issuate	or damages and all remedies arising out of or esigned hereby that have or may have accrued E, or may accrue hereafter, including, but not et, recover and retain damages and any ongoing etitled, or form any settlement or agreement
AND WE HEREBY covenant and agree that WE ASSIGNEE, its successors, its legal representative respecting said INVENTIONS, and will testify in execute all applications and certificates, make all all lawful assistance to said ASSIGNEE, its succession obtain and enforce patent protection for said II	ves, and its assigns, any facts known to us any legal proceeding, sign all lawful papers, I rightful declarations and/or oaths, and provide essors, its legal representatives, and its assigns,
EXECUTED as of the date(s) below by ASSIGN	IOR:
Paul Ma	
Signature	Date
Roghayyeh Lotfi	
Signature	Date
Jaebeom Lee	
Signature	Date
Eric Christopher Stevens	<i>E</i>
	2/14/2021
Simple	14 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Signature	Date [®]
Amit Mishra	
Signature	Date

Application Serial No.:	Docket No.: 100267US0
Filing Date: Title: METHOD AND SYSTEM FOR DEPO	SITING MOLYBDENUM LAYERS
legal representatives, and its assigns all claims relating to any violation(s) of any of the rights prior to the date of assignment to said ASSIG	, ,
execute all applications and certificates, make	atives, and its assigns, any facts known to us y in any legal proceeding, sign all lawful papers, all rightful declarations and/or oaths, and provide accessors, its legal representatives, and its assigns,
EXECUTED as of the date(s) below by ASSI	GNOR:
Paul Ma	
Signature	Date
Roghayyeh Lotfi	~ ₩************************************
	525
Signature	Date
Jaebeom Lee	

Signature	Date
Signature Eric Christopher Stevens	Date
	Date
	The state of the s
Eric Christopher Stevens	Date
Eric Christopher Stevens Signature	Date

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