506794204 07/30/2021

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANDREA ILLIBERI	01/21/2021
GIUSEPPE ALESSIO VERNI	01/19/2021
SHAOREN DENG	01/21/2021
DANIELE CHIAPPE	01/19/2021
EVA TOIS	01/27/2021
MARKO TUOMINEN	01/19/2021
MICHAEL GIVENS	01/23/2021

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:	17216249

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

Email: michelle.sympson@asm.com

Correspondent Name: PATRICK LEE

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

ATTORNEY DOCKET NUMBER:	PAT-MC-0630-US-NP	
NAME OF SUBMITTER:	MICHELLE SYMPSON	
SIGNATURE:	/Michelle Sympson/	
DATE SIGNED:	07/30/2021	

PATENT REEL: 057034 FRAME: 0781

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Total Attachments: 8 source=PAT-MC-0630-US-NP Assignment Executed#page1.tif source=PAT-MC-0630-US-NP Assignment Executed#page2.tif source=PAT-MC-0630-US-NP Assignment Executed#page3.tif source=PAT-MC-0630-US-NP Assignment Executed#page4.tif source=PAT-MC-0630-US-NP Assignment Executed#page5.tif source=PAT-MC-0630-US-NP Assignment Executed#page6.tif source=PAT-MC-0630-US-NP Assignment Executed#page7.tif source=PAT-MC-0630-US-NP Assignment Executed#page8.tif

PATENT REEL: 057034 FRAME: 0782 Application Serial No.: 17/216,249 Docket No.: PAT-MC-0630-US-NP

Filing Date: March 29, 2021

Title: SELECTIVE DEPOSITION OF SILICON OXIDE ON METAL SURFACES

ASSIGNMENT

WHEREAS, Andrea ILLIBERI, a citizen of Italy and a resident of Leuven, Belgium; Giuseppe ALESSIO VERNI, a citizen of Italy and a resident of Antwerp, Belgium; Shaoren DENG, a citizen of China and a resident of Ghent, Belgium; Daniele CHIAPPE, a citizen of Italy and a resident of Espoo, Finland; Eva TOIS, a citizen of Finland and a resident of Helsinki, Finland; Marko TUOMINEN, a citizen of Finland and a resident of Helsinki, Finland; and Michael GIVENS, a citizen of the United States of America and a resident of Oud-Heverlee, Belgium,

(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 SELECTIVE DEPOSITION OF SILICON OXIDE ON METAL SURFACES (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). 17/216,249, filed on March 29, 2021, as Docket No. PAT-MC-0630-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;

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

Application Serial No.:	Docket No.: PAT-MC-0630-US-NP
Filing Date: Title: SELECTIVE DEPOSITION OF SILICON OXI	DE ON METAL SURFACES
ASSIGNEE, its successors, its legal representatives, a of this instrument;	nd its assigns, in accordance with the terms
AND WE DO HEREBY sell, assign, transfer, and collegal representatives, and its assigns all claims for derelating to any violation(s) of any of the rights assign prior to the date of assignment to said ASSIGNEE, allimited to the right to sue for, seek, obtain, collect, reor prospective royalties to which WE may be entitled, to any of said patents before or after issuance;	amages and all remedies arising out of or ned hereby that have or may have accrued or may accrue hereafter, including, but not cover and retain damages and any ongoing
AND WE HEREBY covenant and agree that WE will its successors, its legal representatives, and its assig INVENTIONS, and will testify in any legal proce applications and certificates, make all rightful declar assistance to said ASSIGNEE, its successors, its legal and enforce patent protection for said INVENTIONS	ns, any facts known to us respecting said eding, sign all lawful papers, execute all ations and/or oaths, and provide all lawful al representatives, and its assigns, to obtain
EXECUTED as of the date(s) below by ASSIGNOR:	
Andrea ILLIBERI LIGURO HOMO Signature	<u> 21/01/2024</u> Date
Giuseppe ALESSIO VERNI	
Signature	Date
Shaoren DENG	
Signature	Date
Daniele CHIAPPE	
Signature	Date

Page 2 of 3

Application Serial No.:	Docket No.: PAT-MC-0630-US-NP
Filing Date: Title: SELECTIVE DEPOSITION OF SILICON	OXIDE ON METAL SURFACES
ASSIGNEE, its successors, its legal representativ of this instrument;	es, and its assigns, in accordance with the terms
AND WE DO HEREBY sell, assign, transfer, and legal representatives, and its assigns all claims to relating to any violation(s) of any of the rights a prior to the date of assignment to said ASSIGNI limited to the right to sue for, seek, obtain, collect or prospective royalties to which WE may be entited to any of said patents before or after issuance;	for damages and all remedies arising out of or assigned hereby that have or may have accrued EE, or may accrue hereafter, including, but not at, recover and retain damages and any ongoing
AND WE HEREBY covenant and agree that WE its successors, its legal representatives, and its a INVENTIONS, and will testify in any legal p applications and certificates, make all rightful deassistance to said ASSIGNEE, its successors, its and enforce patent protection for said INVENTION EXECUTED as of the date(s) below by ASSIGNEE.	assigns, any facts known to us respecting said roceeding, sign all lawful papers, execute all eclarations and/or oaths, and provide all lawful legal representatives, and its assigns, to obtain DNS in all countries.
Signature	Date
Giuseppe AFESSIG VERN	19/1/2021
Signature	Date
Shaoren DENG	
Signature	Date
Daniele CHIAPPE	
Signature	Date

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Filing Date: Title: SELECTIVE DEPOSITION OF SILICO	ON OXIDE ON METAL SURFACES
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legal representatives, and its assigns all claim relating to any violation(s) of any of the right prior to the date of assignment to said ASSIG limited to the right to sue for, seek, obtain, co	, and convey to said ASSIGNEE, its successors, its ns for damages and all remedies arising out of or its assigned hereby that have or may have accrued GNEE, or may accrue hereafter, including, but not ollect, recover and retain damages and any ongoing entitled, or form any settlement or agreement related
its successors, its legal representatives, and in INVENTIONS, and will testify in any legal	VE will communicate promptly to said ASSIGNEE, its assigns, any facts known to us respecting said all proceeding, sign all lawful papers, execute all declarations and/or oaths, and provide all lawful
assistance to said ASSIGNEE, its successors, and enforce patent protection for said INVEN	its legal representatives, and its assigns, to obtain TIONS in all countries.
assistance to said ASSIGNEE, its successors, and enforce patent protection for said INVEN EXECUTED as of the date(s) below by ASSIGNEE.	its legal representatives, and its assigns, to obtain TIONS in all countries.
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assistance to said ASSIGNEE, its successors, and enforce patent protection for said INVEN EXECUTED as of the date(s) below by ASSIG Andrea ILLIBERI Signature Giuseppe ALESSIO VERNI	its legal representatives, and its assigns, to obtain TIONS in all countries. GNOR: Date
assistance to said ASSIGNEE, its successors, and enforce patent protection for said INVEN EXECUTED as of the date(s) below by ASSIG Andrea ILLIBERI Signature Giuseppe ALESSIO VERNI Signature	its legal representatives, and its assigns, to obtain TIONS in all countries. GNOR: Date
assistance to said ASSIGNEE, its successors, and enforce patent protection for said INVEN EXECUTED as of the date(s) below by ASSIG Andrea ILLIBERI Signature Giuseppe ALESSIO VERNI Signature	its legal representatives, and its assigns, to obtain TIONS in all countries. GNOR: Date Date
assistance to said ASSIGNEE, its successors, and enforce patent protection for said INVEN EXECUTED as of the date(s) below by ASSIGNANTER AND AND ASSIGNANTER SIGNATURE Signature Signature Shaoren DENG	its legal representatives, and its assigns, to obtain TIONS in all countries. GNOR: Date 21.01.2012
assistance to said ASSIGNEE, its successors, and enforce patent protection for said INVEN EXECUTED as of the date(s) below by ASSIGNANTER ILLIBERI Signature Giuseppe ALESSIO VERNI Signature Shaoren DENG Signature	its legal representatives, and its assigns, to obtain TIONS in all countries. GNOR: Date 21.01.2012

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: Andrea ILLIBERI Signature Date Date Date Date Date Date Date Date	Filing Date: Title: SELECTIVE DEPOSITION OF SILICON	OXIDE ON METAL SURFACES
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: Andrea ILLIBERI Signature Date Giuseppe ALESSIO VERNI Date Date Daniele CHIAPPE Agrae Date		res, and its assigns, in accordance with the terms
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: Andrea ILLIBERI Signature Date Shaoren DENG Signature Date Date Date	legal representatives, and its assigns all claims relating to any violation(s) of any of the rights a prior to the date of assignment to said ASSIGNI limited to the right to sue for, seek, obtain, collector prospective royalties to which WE may be entit	for damages and all remedies arising out of or assigned hereby that have or may have accrued EE, or may accrue hereafter, including, but not ct, recover and retain damages and any ongoing
Andrea ILLIBERI Signature Giuseppe ALESSIO VERNI Signature Date Shaoren DENG Signature Date Date	its successors, its legal representatives, and its in INVENTIONS, and will testify in any legal papplications and certificates, make all rightful deassistance to said ASSIGNEE, its successors, its	assigns, any facts known to us respecting said proceeding, sign all lawful papers, execute all eclarations and/or oaths, and provide all lawful legal representatives, and its assigns, to obtain
Signature Date Giuseppe ALESSIO VERNI Signature Date Shaoren DENG Signature Date Date	EXECUTED as of the date(s) below by ASSIGN	OR:
Giuseppe ALESSIO VERNI Signature Date Shaoren DENG Signature Date Date Daniele CHIAPPE A A A A A A A A A A A A A A A A A A A	Andrea ILLIBERI	
Signature Date Shaoren DENG Signature Date Date Date An As	Signature	Date
Shaoren DENG Signature Date Daniele CHIAPPE A A A A A A A A A A A A A A A A A A A	Giuseppe ALESSIO VERNI	
Signature Date Daniele CHIAPPE A A A A A A A A A A A A A A A A A A A	Signature	Date
Daniele CHIAPPE Au La Valda 45/01/2021	Shaoren DENG	
Mile Verday 15/01/2021	Signature	Date
Signature Date	Daniele CHIAPPE	45/01/2021
	Signature	Date

Application Serial No.:

Docket No.: PAT-MC-0630-US-NP

Application Serial No.: Filing Date:	Docket No.: PAT-MC-0630-US-NP
Title: SELECTIVE DEPOSITION OF SIL	ICON OXIDE ON METAL SURFACES
Eya TOIS	
Qua stais	2021-01-27
Signature	Date
Marko TUOMINEN	
Signature	
Michael GIVENS	
Signature	 Date

Application Serial No.: Docket No.: PAT-MC-0630-	
Filing Date: Title: SELECTIVE DEPOSITION OF SILICON (OXIDE ON METAL SURFACES
Eva TOIS	
Signature	Date
Marko TUOMINEN	19/1/2021
Signature	Date
Michael GIVENS	
Signature	Date

Application Serial No.:	DOCKET NO.: PAI-MC-0030-US-NP
Filing Date:	
Title: SELECTIVE DEPOSITION OF SIL	ICON OXIDE ON METAL SURFACES
Eva TOIS	
Eva 1013	
Signature	Date
Marko TUOMINEN	
·	
Signature	Date
Michael GIVENS	
2/1/1/	- 23-Jan-2021
Signature	Dota