507015482 12/08/2021

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANDREA ILLIBERI	11/13/2021
VARUN SHARMA	11/19/2021
MICHAEL GIVENS	11/17/2021
MARKO TUOMINEN	11/13/2021
SHAOREN DENG	11/17/2021

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:	17457764

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: asia.gul@asm.com
Correspondent Name: PATRICK LEE

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

ATTORNEY DOCKET NUMBER:	100510US02
NAME OF SUBMITTER:	ASIA GUL
SIGNATURE:	/Asia Gul/
DATE SIGNED:	12/08/2021

Total Attachments: 6

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PATENT REEL: 058332 FRAME: 0748

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PATENT REEL: 058332 FRAME: 0749 Application Serial No.: 17/457,764 Docket No.: 100510US02

Filing Date: December 6, 2021

Title: TOPOSELECTIVE VAPOR DEPOSITION USING AN INHIBITOR

ASSIGNMENT

WHEREAS, Andrea Illiberi, a citizen of Italy and a resident of Leuven, BE; Varun Sharma, a citizen of India and a resident of Helsinki, FI; Michael Givens, a citizen of United States of America and a resident of Oud-Heverlee, BE; Marko Tuominen, a citizen of Finland and a resident of Helsinki, FI; Shaoren Deng, a citizen of China and a resident of Ghent, BE;

(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 TOPOSELECTIVE VAPOR DEPOSITION USING AN INHIBITOR (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). 17/457,764, filed on December 6, 2021, as Docket No. 100510US02 (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 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.: 100510US0
Filing Date:Title: TOPOSELECTIVE VAPOR DEPOSITION	ON USING AN INHIBITOR
AND WE DO HEREBY sell, assign, transfer, as legal representatives, and its assigns all claims for relating to any violation(s) of any of the rights a prior to the date of assignment to said ASSIGNE limited to the right to sue for, seek, obtain, colle or prospective royalties to which WE may be en related to any of said patents before or after issue	or damages and all remedies arising out of or assigned hereby that have or may have accrued EE, or may accrue hereafter, including, but not et, recover and retain damages and any ongoing stitled, or form any settlement or agreement
AND WE HEREBY covenant and agree that W ASSIGNEE, its successors, its legal representation respecting said INVENTIONS, and will testify it execute all applications and certificates, make all lawful assistance to said ASSIGNEE, its succession obtain and enforce patent protection for said I	ives, and its assigns, any facts known to us in any legal proceeding, sign all lawful papers, Il rightful declarations and/or oaths, and provide cessors, its legal representatives, and its assigns,
EXECUTED as of the date(s) below by ASSIG	NOR:
Andrea Illiberi Andrea Elliberi Signature	L5/11/2021 Date
Varun Sharma	
Signature	Date
Michael Givens	
Signature	Date
Marko Tuominen	
Signature	Date
Shaoren Deng	
Signature	Date

Page 2 of 2

Filing Date: Title: TOPOSELECTIVE VAPOR DEPOSITION	N USING AN INHIBITOR
AND WE DO HEREBY sell, assign, transfer, and 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 issua	or damages and all remedies arising out of or signed hereby that have or may have accrued E, or may accrue hereafter, including, but not t, recover and retain damages and any ongoing itled, 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 succesto obtain and enforce patent protection for said INVENTION as of the date(s) below by ASSIGNANDER.	ves, and its assigns, any facts known to us any legal proceeding, sign all lawful papers, rightful declarations and/or oaths, and provide essors, its legal representatives, and its assigns, NVENTIONS in all countries.
6.	D. de
Signature	Date
Varun Sharma	49,44.2021
Signature	Date
Michael Givens	
Signature	Date
Marko Tuominen	
Signature	Date
Shaoren Deng	
Signature	Date

Application Serial No.:

Application Serial No.:	Docket No.: 100510US02
Filing Date: Title: TOPOSELECTIVE VAPOR DEPO	OSITION USING AN INHIBITOR
legal representatives, and its assigns all crelating to any violation(s) of any of the reprior to the date of assignment to said AS limited to the right to sue for, seek, obtain	isfer, and convey to said ASSIGNEE, its successors, its laims for damages and all remedies arising out of or ights assigned hereby that have or may have accrued SIGNEE, or may accrue hereafter, including, but not a, collect, recover and retain damages and any ongoing y be entitled, or form any settlement or agreement ter issuance;
ASSIGNEE, its successors, its legal representation of the said INVENTIONS, and will the execute all applications and certificates, the said invention of t	that WE will communicate promptly to said esentatives, and its assigns, any facts known to us testify in any legal proceeding, sign all lawful papers, make all rightful declarations and/or oaths, and provide its successors, its legal representatives, and its assigns, or said INVENTIONS in all countries.
EXECUTED as of the date(s) below by A	ASSIGNOR:
Andrea Illiberi	
Signature	Date
Varun Sharma	
Signature	Date
Michael Givens	
- may	17-Nov-2021
Signature	Date
Marko Tuominen	in de la composition de la composition Carte de la composition de la composit
Signature	Date
Shaoren Deng	i de transportation de la companya de la companya La companya de la co
~	
Signature	Date

Application Serial No.:	Docket No.: 100510US02
Filing Date: Title: TOPOSELECTIVE VAPOR DEPOSITIO	N USING AN INHIBITOR
AND WE DO HEREBY sell, assign, transfer, ar 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 issue	ssigned hereby that have or may have accrued EE, or may accrue hereafter, including, but not ct, recover and retain damages and any ongoing titled, or form any settlement or agreement
AND WE HEREBY covenant and agree that WI ASSIGNEE, its successors, its legal representation respecting said INVENTIONS, and will testify it execute all applications and certificates, make all lawful assistance to said ASSIGNEE, its succession to obtain and enforce patent protection for said I EXECUTED as of the date(s) below by ASSIGNANDEE, its succession and enforce patent protection for said I EXECUTED as of the date(s) below by ASSIGNANDEE, its succession and enforce patent protection for said I executed as of the date(s) below by ASSIGNANDEE, its succession and enforce patent protection for said I executed as of the date(s) below by ASSIGNANDEE, its succession and enforce patent protection for said I executed as of the date(s) below by ASSIGNANDEE, its succession and enforce patent protection for said I executed as of the date(s) below by ASSIGNANDEE, its succession and enforce patent protection for said I executed as of the date(s) below by ASSIGNANDEE, its succession and enforce patent protection for said I executed as of the date(s) below by ASSIGNANDEE, its succession and enforce patent protection for said I executed as of the date(s) below by ASSIGNANDEE, its succession and enforce patent protection for said I executed as of the date(s) below by ASSIGNANDEE, its succession and enforce patent protection for said I executed as of the date(s) below by ASSIGNANDEE, its succession and enforce patent protection for said I executed as of the date(s) below by ASSIGNANDEE, its succession and enforce patent protection for said I executed as of the date(s) below by ASSIGNANDEE, its succession and enforce patent protection for said I executed as of the date(s) below by ASSIGNANDEE, its succession and enforce patent protection for said I executed as of the date(s) below by ASSIGNANDEE, its succession and enforce patent protection for said I executed as of the date(s) below by ASSIGNANDEE, its succession and enforce patent protection for the date(s) below by ASSIGNANDEE, its succession and executed as of the date(s)	ives, and its assigns, any facts known to us in any legal proceeding, sign all lawful papers, ill rightful declarations and/or oaths, and provide cessors, its legal representatives, and its assigns, INVENTIONS in all countries.
Signature	 Date
Varun Sharma	Date
Signature	Date
Michael Givens	
Signature	Date
Marko Tuominen	15/4/2021
Signature	Date
Shaoren Deng	
Signature	Date

Application Serial No.:	Docket No.: 100510US02
Filing Date: Title: TOPOSELECTIVE VAPOR DEPOSITION	N USING AN INHIBITOR
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, collect or prospective royalties to which WE may be entirelated to any of said patents before or after issua	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 titled, 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 it execute all applications and certificates, make all all lawful assistance to said ASSIGNEE, its succession to obtain and enforce patent protection for said INVENTIONS and will execute all applications and certificates, make all all lawful assistance to said ASSIGNEE, its succession to obtain and enforce patent protection for said INVENTIONS. EXECUTED as of the date(s) below by ASSIGNEE.	ves, and its assigns, any facts known to us n any legal proceeding, sign all lawful papers, I rightful declarations and/or oaths, and provide essors, its legal representatives, and its assigns, NVENTIONS in all countries.
Signature	Date
Varun Sharma	
Signature	Date
Michael Givens	
Signature	Date
Marko Tuominen	
Signature	Date
Shaoren Deng	17.12.2021
Signature	Date

Page 2 of 2