## 506691514 06/01/2021

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6738331

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
MANISH KOCHAR	12/07/2017
PETER J. BOSCO	11/28/2017
IAN D. CHAMBERLIN	12/01/2017
BANDELE JEFFREY-COKER	12/14/2017
ERIC M. JONES	11/30/2017
GARY I. KRIVOY	12/01/2017
DON E. KRUEGER	01/16/2018
AARON H. LEIMKUEHLER	12/01/2017
PEI-MING WO	12/05/2017
KIM-XUAN NGUYEN	04/22/2013
PANKAJ OBEROI	12/04/2017
LOUIS W. PANG	12/15/2017
JENNIFER PARKER	12/06/2017
VICTOR PELLICIER	12/06/2017
NICHOLAS SAMMONS	01/11/2018
GEORGE SIGAL	12/04/2017
JACOB N. WOHLSTADTER	01/16/2018
MICHAEL L. VOCK	12/06/2017
STANLEY T. SMITH	01/19/2018
CARL C. STEVENS	11/28/2017
RODGER D. OSBORNE	12/08/2017
KENNETH E. PAGE	12/07/2017
MICHAEL T. WADE	12/04/2017
JON WILLOUGHBY	12/08/2017
LEI WANG	12/01/2017

## **RECEIVING PARTY DATA**

Name:	MESO SCALE TECHNOLOGIES, LLC.
Street Address:	1601 RESEARCH BOULEVARD
City:	ROCKVILLE
State/Country:	MARYLAND

Postal Code: 20850
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#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16319731

#### CORRESPONDENCE DATA

**Fax Number:** (703)712-8525

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:** (703) 712-8531

**Email:** msatorre@medlerferro.com, docketing@medlerferro.com

Correspondent Name: MEDLER FERRO WOODHOUSE & MILLS PLLC

Address Line 1: 8201 GREENSBORO DRIVE

Address Line 2: SUITE 1060

Address Line 4: MCLEAN, VIRGINIA 22102

ATTORNEY DOCKET NUMBER:	0076-0040US2
NAME OF SUBMITTER:	CHEN LI
SIGNATURE:	/Chen Li/
DATE SIGNED:	06/01/2021

#### **Total Attachments: 28**

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#### ASSIGNMENT

- WHEREAS, WE, Manish KOCHAR, citizen of the United States and residing at 15612 Thistlebridge Drive, Rockville, MD, 20853, United States;
- Peter J. BOSCO, citizen of the United States and residing at 1035 Brice Road, Rockville, MD 20852, United States; Ian D. CHAMBERLIN, citizen of the United States and residing at 11248 Chase Street, Unit 1, Fulton, MD 20759, United States;
- Bandele JEFFREY-COKER, citizen of the United States and residing at 13428 Scottish Autumn Lane, Darnestown, MD 20878, United States;
- Eric M. JONES, citizen of the United States and residing at 403 Culler Avenue, Frederick, MD 21701, United States; Gary I. KRIVOY, citizen of the United States and residing at 501 Hungerford Drive, Apt. 239, Rockville, MD 20850, United States;
- Don E. KRUEGER, citizen of the United States and residing at 46 Park Drive, Stafford, VA 22556, United States; Aaron H. LEIMKUEHLER, citizen of the United States and residing at 2541 Edgewood Drive, Upper St. Clair, PA 15241, United States;
- Pei-Ming WU, citizen of Taiwan and residing at 7861 Coddle Harbor Lane, Potomac, MD 20854, United States; Kim-Xuan NGUYEN, citizen of the United States and residing at 18621 Walkers Choice Road, Apt. 201, Montgomery Village, MD 20886, United States;
- Pankaj OBEROI, citizen of the United States and residing at 306 Treemont Way, Rockville, MD 20850, United States; Louis W. PANG, citizen of the United States and residing at 1028 Oakwood Manor Drive; Sandy Spring, MD 20860, United States;
- Jennifer PARKER, citizen of the United States and residing at 9156 Bealls Farm Road, Frederick, MD 21704, United States;
- Victor PELLICIER, citizen of the United States and residing at 4798 Mid Lynn Court; Monrovia, MD 21770, United States;
- Nick SAMMONS, citizen of the United States and residing at 12203 Braxfield Ct., #8, Rockville, MD 20852, United States;
- George SIGAL, citizen of the United States and residing at 5333 Trailway Drive, Rockville, MD 20853, United States Jacob N. WOHLSTADTER, citizen of the United States and residing at 8924 Bel Air Place, Potomac, MD 20854, United States;
- Michael L. VOCK, citizen of the United States and residing at 6605 Stableford Drive, Loveland, OH 45140, United States
- Stanley T. SMITH, citizen of the United States and residing at 593 Gerloff Road, Schwenksville, PA 19473, United States;
- Carl C. STEVENS, citizen of the United States and residing at 1944 Kimberly Road, Silver Spring, MD 20903, United States;
- Rodger D. OSBORNE, citizen of the United States and residing at 4204 SE Oakland St., Stuart, FL 34997, United States;
- Kenneth PAGE, citizen of the United States and residing at 143 Confederate Dr., Martinsburg, WV 25403, United States;
- Michael T. WADE, citizen of the United States and residing at 3954 Braveheart Circle; Urbana, MD 21704, United States;
- Jon WILLOUGHBY, citizen of the United States and residing at 572 Chestertown Street, Gaithersburg, MD 20878, United States; and
- Lei WANG, citizen of the United States and residing at 5959 Gentle Call, Clarksville, MD 21029, United States, ASSIGNORS, are the inventors of the invention in **Integrated Consumable Data Management System & Platform** embodied and described in an international patent application
- which is identified by Attorney docket no. MSD-007.PCT.2
- which was filed on January 20, 2017 as International Patent Application No. PCT/US2017/014360 and claims priority to International Patent Application No. PCT/US2016/043755, filed on July 22, 2016, which claims priority to U.S. Provisional Application No. 62/195,956, filed on July 23, 2015.

and WHEREAS, Meso Scale Technologies, LLC., ASSIGNEE, a corporation organized under the laws of the United States, having a place of business at 1601 Research Avenue, Rockville, MD 20850, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said international patent application, which claims priority to the said priority international patent application and to the said provisional patent application:

NOW, THEREFORE, in consideration of the sum of Ten Dollar (\$10.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said international patent application and all United States non-provisional patent applications claiming priority to the said international patent application and all divisions, renewals and continuations of the said United States non-provisional patent applications, and all Patents of the United States 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 said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said international patent application under the Patent Laws of the United States, the Patent Cooperation Treaty, the Hague Agreement Concerning the International Registration of Industrial Designs, 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, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner for Patents 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 applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

AND WE HEREBY grant the power to H.T. Than (Reg. No. 38,632) to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

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Docket No. MSD-007.PCT.2 Joint Assignment Sheet 4 of 11

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Docket No. MSD-007.PCT.2 Joint Assignment Sheet 4 of 11

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Joint Assignment Sheet 4 of 11

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Docket No. MSD-007.PCT.2 Joint Assignment Sheet 5 of 11

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whose name(s) is subsauthorized capacity(ie	on E. Krueger , per , pe	e,, Notary Pulersonally known to me on the basis of satisfactory evidence to be nent and acknowledged to me that he/she/they executed the same r signature(s) on the instrument the person(s), or the entity upon be	e the person(s in his/her/thei
WITNESS n	y hand and official seal		
DateD&c&mb	&Y` ! , 2017	2an Linhushle	L.S.
		Aaron H. Leimkuehler	
appeared As person(s) whose name his/her/their authorize behalf of which the pe	(s) is subscribed to the win	personally known to me on the basis of satisfactory evid thin instrument and acknowledged to me that he/she/they executy his/her/their signature(s) on the instrument the person(s), or the instrument the person(s).	ed the same in he entity upon
		My Comm. Expires Oct. 20,	2020
Date	, 2017	Pei-Ming Wu	L.S.
		Totaling Wa	
State of	) ) SS.:		
County of	)		
appeared Pe whose name(s) is subs authorized capacity(ie the person(s) acted, ex	i-Ming Wu , pe cribed to the within instrum s), and that by his/her/their ecuted the instrument.	,, Notary Pub rsonally known to me on the basis of satisfactory evidence to be nent and acknowledged to me that he/she/they executed the same is signature(s) on the instrument the person(s), or the entity upon b	the person(s) in his/her/their
WIINESS m	y hand and official seal		

Docket No. MSD-007.PCT.2 Joint Assignment Sheet 5 of 11

Date	, 2017		L.S.
		Don. E. Krueger	
State of	) ) SS.:		
County of	)		
appeared whose name(s) is so authorized capacity	Don E. Krueger , per ubscribed to the within instrum	,, Notary Pubirsonally known to me on the basis of satisfactory evidence to be nent and acknowledged to me that he/she/they executed the same is signature(s) on the instrument the person(s), or the entity upon be	the person(s) in his/her/their
WITNESS	S my hand and official seal		
Date	, 2017	Aaron H. Leimkuehler	L.S.
State of	) ) SS.:		
County of	)		
appeared person(s) whose na his/her/their author behalf of which the	Aaron H. Leimkuehler me(s) is subscribed to the with ized capacity(ies), and that by person(s) acted, executed the	, Notary Publ.  , personally known to me on the basis of satisfactory evide hin instrument and acknowledged to me that he/she/they execute y his/her/their signature(s) on the instrument the person(s), or the instrument.	ence to be the ed the same in
	S my hand and official seal	Loll	L.S.
appeared whose name(s) is su authorized capacity	2017, before me, Pei-Ming Wu per	Pei-Ming Wu  Toonally known to me on the basis of satisfactory evidence to be the sand acknowledged to me that he/she/they executed the same is signature(s) on the instrument the person(s), or the entity upon be	the person(s) n his/her/their
WITNESS	my hand and official seal	Sharren A. Lewis Notary Public - Maryland Montgomery County My Comm. Expires Oct. 20, 2020	E CONTRACTOR DE

Docket No. MSD-007.PCT.2 Joint Assignment Sheet 5 of 11

## Meso Scale Diagnostics, LLC.

1601 Research Boulevard, Rockville, MD 20850

# EMPLOYEE PROPRIETARY INFORMATION AND NONDISCLOSURE AGREEMENT (USA)

IN CONSIDERATION of my employment and the continuance of my employment by Meso Scale Diagnostics, LLC., a Delaware limited liability, I agree as follows:

1. For the purpose of this Agreement, the term "MSD" shall mean Meso Scale Diagnostics, LLC, and its subsidiaries, and any successors and assigns of MSD or its subsidiaries.

6. I hereby assign and agree to assign to MSD or its designee all my worldwide right, title, and interest (including, but not limited to, all statutory and common law rights and/or interests) in, under and to any and all intellectual property (whether or not copyrightable, patentable, patented or otherwise protectable under local, state, federal or foreign laws or treaties), including, but not limited to, all inventions, ideas, information, compositions of matter, processes, materials, data, drawings, know-how, improvements, discoveries, technical developments and works of authorship, that I solely or jointly with others, develop, conceive or reduce to practice that are within the scope of my employment, or otherwise during the term of my employment. Such intellectual property shall include but is not limited to intellectual property that: (a) is related in whole or in part, directly or indirectly, to MSD's past, present or future product lines, research and development activities, or field or technological or industrial specialization; (b) arises in the course of utilization by MSD of my services in a technical or professional capacity in the areas of research, development, marketing, management, engineering, manufacturing or in any other capacity, either on behalf of MSD or an MSD customer or client; (c) arises out of any project in which I am a participant, whether or not at MSD, that is either financed, directed or supervised by MSD, directly or indirectly, or in which I use any MSD equipment, biological materials or any other item of tangible or intangible MSD property; or (d) are made at MSD's expense, in whole or in part (collectively, "Developments").

16. I HEREBY WARRANT AND ACKNOWLEDGE THAT I HAVE CAREFULLY READ ALL THE PROVISIONS HEREOF, THAT I COMPLETELY UNDERSTAND ALL OF SUCH PROVISIONS AND THAT ALL OF THE STATEMENTS HEREIN MADE BY, OR WHICH REFER TO, ME ARE ACCURATE, COMPLETE AND OMIT NO FACTS OR STATEMENTS OF A MATERIAL NATURE. I FURTHER WARRANT THAT I HAVE NO AGREEMENTS WITH OR OBLIGATIONS TO OTHERS WHICH CONFLICT WITH MY OBLIGATIONS UNDER THIS AGREEMENT.

ACCEPTED AND AGREED TO:	
EMPLOYEE SIGNATURE:	
PRINTED NAME: KIM-XUAN DINH NGUYEN	
DATE: 4/22/2013	,
MESO SCALE DIAGNOSTICS, LLC.	
WITNESS SIGNATURE:	
DATE: 22 APR 2013	

Rev. 9/13

**REEL: 056444 FRAME: 0590** 

Date	, 2017	Kim-Xuan Nguyen	L.S.
		Kiiii-Auan inguyen	
State of	) ) SS.:		
County of	)		
whose name(s) is su authorized capacity	, 2017, before me, Kim-Xuan Nguyen, personally k ubscribed to the within instrument and a v(ies), and that by his/her/their signature , executed the instrument.	cknowledged to me that he/she/they	executed the same in his/her/their
WITNESS	S my hand and official seal		
Date <u>04 £</u>	<u>)ec</u>	) <u> </u>	L.S.
	J. Artical Control of the Control of	Pankaj Oberoi	
State of Mary low	ncl) ss.:		Sharren A, Lewis Notary Public - Maryland Montgomery County My Comm. Expires Oct. 20, 2020
On appearedwhose name(s) is su authorized capacity	Pankaj Oberoi , personally k ubscribed to the within instrument and activities), and that by his/her/their signature, executed the instrument.	cknowledged to me that he/she/they	executed the same in his/her/their
WITNESS	S my hand and official seal		
Date	, 2017		L.S.
		Louis W. Pang	
State of	) ) SS.:		
County of	)		
Onappeared	, 2017, before me, Louis W. Pang, personally k	nown to me on the basis of satisfac	, Notary Public, personally ctory evidence to be the person(s)
authorized capacity	ubscribed to the within instrument and activities), and that by his/her/their signature, executed the instrument.		

Date	, 2017	Kim-Xuan Nguyen	L.S.
State of	) ) SS.:		
County of	)		
On	, 2017, before me,	, Notary Ponally known to me on the basis of satisfactory evidence to	ublic, personally
whose name(s) is su authorized capacity	ubscribed to the within instrumer	onally known to me on the basis of satisfactory evidence to at and acknowledged to me that he/she/they executed the sam gnature(s) on the instrument the person(s), or the entity upor	ne in his/her/their
WITNESS	S my hand and official seal		
Date	, 2017		L.S.
17416	, 2017	Pankaj Oberoi	
State of	)		
County of	) SS.: )		
•	2017 hafara ma	, Notary P	ublic magamathe
appeared whose name(s) is su authorized capacity	Pankaj Oberoi, perso abscribed to the within instrumen	mally known to me on the basis of satisfactory evidence to at and acknowledged to me that he/she/they executed the sam gnature(s) on the instrument the person(s), or the entity upor	be the person(s) te in his/her/their
WITNESS	my hand and official seal		
Date <u>Dê (&amp;wb</u> ê	<u>, 15</u> , 2017	Louis W. Pang	L.S.
State of Mainla	) ss.:	Sharren A. Lewis Notary Public - Maryland Montgomery County	ALADA
	N. 187	My Comm. Expires Oct. 20, 2	accannon?
appeared		mally known to me on the basis of satisfactory evidence to and acknowledged to me that he/she/they executed the same	be the person(s)
authorized capacity		gnature(s) on the instrument the person(s), or the entity upor	

		1		والمدورة والمراو والمر		
Date 6 DEC	, 2017		arana marina	are in the second		L.S.
		- //	Jennit	fer Parker		
State of Was y la	w			A COMPANY OF THE BEALTH BEALTH	Notary Publ	A. Lewis ic - Maryland ery County
<b>X</b>	g man g	A			My Comm. Expi	res Oct. 20, 2020
appeared whose name(s) is su authorized capacity	2.44 2.5 2017, before m Jennifer Parker , p bscribed to the within instru (ies), and that by his/her/the executed the instrument.	ersonally known to ment and acknowle	edged to me	that he/she/th	factory evidence sey executed the	
WITNESS	my hand and official seal			0	Notary Pu Montgo	en A, Lewis iblic - Maryland mery County pires Oct. 20, 2020
Date <u>06 08</u>	,2017		Victor	llu r Pellicier	······································	L.S.
appeared whose name(s) is su authorized capacity(	23.000 b, 2017, before m	ersonally known to ment and acknowle	o me on the edged to me	basis of satis that he/she/th	factory evidence ey executed the	
WITNESS	my hand and official seal			Notary P Montg	ren A. Lewis lublic - Maryland omery County expires Oct. 20, 2	020
Date	, 2017		Nick S	Sammons		L.S.
State of	) ) SS.:					
County of	)					
On appeared]	, 2017, before m Nick Sammons, p	e,	me on the	hasis of satis	, Notai	y Public, personally
whose name(s) is su authorized capacity(	bscribed to the within instru (ies), and that by his/her/thei executed the instrument.	ment and acknowle	edged to me	that he/she/th	ey executed the	same in his/her/their

Docket No. MSD-007.PCT.2 Joint Assignment Sheet 7 of 11

Date	, 2017		L.S.
		Jennifer Parker	
State of	) ) SS.:		
County of	) 35		
Onappeared	, 2017, before me, Jennifer Parker , personally	y known to me on the basis of satisfactory	, Notary Public, personally evidence to be the person(s)
whose name(s) is su authorized capacity	ibscribed to the within instrument and	d acknowledged to me that he/she/they execure(s) on the instrument the person(s), or the	uted the same in his/her/their
WITNESS	my hand and official seal		
Date	, 2017		L.S.
		Victor Pellicier	
State of	) ) SS.:		
County of	)		
appearedwhose name(s) is su authorized capacity	Victor Pellicier , personally bscribed to the within instrument and	wknown to me on the basis of satisfactory acknowledged to me that he/she/they execure(s) on the instrument the person(s), or the	evidence to be the person(s) uted the same in his/her/their
WITNESS	my hand and official seal		
Date Janas	-y_//,2018		L.S.
.nv	, .	Nicholas Sammons	
State of Mary Co.	) ) SS.:		
	x(12 11 , 2018, before me,	James A Consider	_, Notary Public, personally
appearedwhose name(s) is su authorized capacity(	Nicholas Sammons , personally bscribed to the within instrument and (ies), and that by his/her/their signatu	known to me on the basis of satisfactory and acknowledged to me that he/she/they execute(s) on the instrument the person(s), or the	evidence to be the person(s) uted the same in his/her/their
	executed the instrument.	Sharren A.	Lewis
WITNESS  Docket No. MSD-0	my hand and official seal	Notary Public - Montgomery	- Maryland County
Joint Assignment	V/.4 U I	My Comm. Expires	Oct. 20, 2020 PATENT

Joint Assignment Sheet 7 of 11

REEL: 056444 FRAME: 0594

Date	<u> </u>	George Sigal	C.S.
State of Work of County of War	SS.:	Janua W. (Cwill, Notary Public, per	monelly.
appeared name(s) is subscri authorized capacit	George Sigal , personally knobed to the within instrument an	own to me on the basis of satisfactory evidence to be the person(s) d acknowledged to me that he/she/they executed the same in his/h gnature(s) on the instrument the person(s), or the entity upon behalf or Sharren A. Lewis	whose er/their
WITNES	S my hand and official seal	Notary Public - Maryland Montgomery County My Comm. Expires Oct. 20, 2020	
Date	, 2017		S.
		Jacob Wohlstadter	
State of County of On appeared		, Notary Public, per nally known to me on the basis of satisfactory evidence to be the pe	
authorized capacity		at and acknowledged to me that he/she/they executed the same in his/hegnature(s) on the instrument the person(s), or the entity upon behalf of	
WITNES	S my hand and official seal		
Date	, 2017	L Mike Vock	S.
State of	) ) SS.:		
County of	)		
On	, 2017, before me,	, Notary Public, persown to me on the basis of satisfactory evidence to be the person(s)	sonally
name(s) is subscri authorized capacity	bed to the within instrument and	own to me on the basis of satisfactory evidence to be the person(s) d acknowledged to me that he/she/they executed the same in his/hegnature(s) on the instrument the person(s), or the entity upon behalf of	er/their

Docket No. MSD-007.PCT.2 Joint Assignment Sheet 8 of 11

Date	, 2018		L.S.
		George Sigal	
State of County of	) ) SS.: )		
	00101.6	NY.	n 1 1° 11
authorized capa	George Sigal, person scribed to the within instrum	ally known to me on the basis of satisfactory evidence to be the nent and acknowledged to me that he/she/they executed the sar their signature(s) on the instrument the person(s), or the entity upon	ne in his/her/thei
WITN	ESS my hand and official sea	al	
Date 🎉	<u></u>	Jacob N. Wohlstadter	L.S.
appeared whose name(s) authorized capa	is subscribed to the within ins acity(ies), and that by his/her/t	, personally known to me on the basis of satisfactory evidence t strument and acknowledged to me that he/she/they executed the sa- their signature(s) on the instrument the person(s), or the entity upon	be the person(s) me in his/her/their
•	eted, executed the instrument. ESS my hand and official sea		
,,,,,,	202 m, mana ana 9moran 500	•	
Date	2018		L.S.
Date	, 2016	Michael L. Vock	L.3.
State of	) ) SS.:		
County of	)		
On	, 2018, before	e me,, Notary , personally known to me on the basis of satisfactory evidence to	Public, personally be the person(s)
whose name(s) authorized capa	is subscribed to the within ins	trument and acknowledged to me that he/she/they executed the satheir signature(s) on the instrument the person(s), or the entity upon	me in his/her/their

Date	, 2017		L.S.
		George Sigal	
State of	) ) SS.:		
County of	)		
appeared	George Sigal , personally known to bed to the within instrument and ackay (ies), and that by his/her/their signature, executed the instrument.	, No me on the basis of satisfactory evidence to be nowledged to me that he/she/they executed the e(s) on the instrument the person(s), or the entite	pe the person(s) whose e same in his/her/their
WITNES	S my hand and official seal		
Date	, 2017	Jacob N. Wohlstadter	L.S.
State of	) ) SS.:		
County of	) 33		
appearedwhose name(s) is so authorized capacity	<u>Jacob N. Wohlstadter</u> , personally lubscribed to the within instrument and a	known to me on the basis of satisfactory evide acknowledged to me that he/she/they executed the e(s) on the instrument the person(s), or the entity	nce to be the person(s) he same in his/her/their
WITNESS	S my hand and official seal		
Date Decem	<u>}≈</u>	Wolf Dol Michael L. Vock	L.S.
State of language	) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )		
County of Man	) 55.; AMER <b>)</b>	,	
On appeared Michoname(s) is subscribe authorized capacity	Extract 2, 2017, before me, 2017, before	o me on the basis of satisfactory evidence to be nowledged to me that he/she/they executed the e(s) on the instrument the person(s), or the entity	e same in ms/ner/meir
WITNESS	S my hand and official seal	Sharren A. Lewis Notary Public - Maryland Montgomery County My Comm. Expires Oct. 20, 2020	

Date 19 Jan 2	<i>2018</i>	Stover I Smith	L.S.
7.5.5.7.5	, 2 . 1 .	Stanley T. Smith	
State of FOUNSYLI	VANIA)		
State of <i>FOUNSYL</i> County of <i>MONT</i> E	) SS.: OMER )		
		MARINE ON A ASTRUSO	Notation Delette assume alle
appeared	Stanley T. Smith , per	MARIA GIWA ACTON SO sonally known to me on the basis of sa	tisfactory evidence to be the person(s)
		ent and acknowledged to me that he/she/ signature(s) on the instrument the person	
	executed the instrument.	and the passes	(c), c. a. c y -p
WITNESS	my hand and official seal	COMMONWEALTH OF PENNSYLVAN  NOTARIAL SEAL  Maria Gina Alfonso, Notary Public  Collegeville Boro, Montgomery Count My Commission Expires April 2, 202  MEMBER, PENNSYLVANIA ASSOCIATION OF NOTAL	y 1
Date	,2017		L.S.
Datc	, 2017	Carl C. Stevens	1.00
State of	)		
State of	) SS.:		
County of	)		
On	2017, before me		. Notary Public, personally
appeared whose name(s) is su authorized capacity	Carl C. Stevens , perubscribed to the within instrum	rsonally known to me on the basis of sament and acknowledged to me that he/she, signature(s) on the instrument the person	tisfactory evidence to be the person(s) /they executed the same in his/her/their
WITNESS	S my hand and official seal		
Date	, 2017		L.S.
		Rodger D. Osbor	ne
State of	) ) SS.:		
County of	) 33		
On	, 2017, before me		, Notary Public, personally
appeared	Rodger D. Osborne , pe	sonally known to me on the basis of sa	tisfactory evidence to be the person(s)
whose name(s) is su authorized capacity	ibscribed to the within instrun	ent and acknowledged to me that he/she, signature(s) on the instrument the person	they executed the same in his/her/thei

Docket No. MSD-007.PCT,2 Joint Assignment Sheet 9 of 11

Date	, 2017		L.S.
		Stanley T. Smith	
State of	) ) SS.:		
County of	)		
appearedwhose name(s) is su authorized capacity(the person(s) acted,	bscribed to the within instrument (ies), and that by his/her/their sign executed the instrument.	nally known to me on the basis of satisfactory evand acknowledged to me that he/she/they execute ature(s) on the instrument the person(s), or the ending the person in	ed the same in his/her/the
WITNESS	my hand and official seal		
Date <u>Neu 2</u>	<u> </u>	Carl C. Stevens	L.S.
State of Marin land	( )		
State of Many loc County of Market	) SS.:		
On And Andrews On Andrews Andrews In an Andr	Carl C. Stevens, personal bscribed to the within instrument	ally known to me on the basis of satisfactory evi and acknowledged to me that he/she/they execute ature(s) on the instrument the person(s), or the er	ed the same in his/her/the
WITNESS	my hand and official seal	Notary F Montg	rren A. Lewis Public - Maryland Jomery County Expires Oct. 20, 2020
Date	, 2017		L.S.
		Roger D. Osbourne	
State of	) ) SS.:		
County of	)		
		, ally known to me on the basis of satisfactory evi	
authorized capacity(		and acknowledged to me that he/she/they execute ature(s) on the instrument the person(s), or the er	

Docket No. MSD-007.PCT.2 Joint Assignment Sheet 9 of 11

Date	, 2017		L.S.
		Stanley T. Smith	
State of	) ) SS.:		
County of	)		
appeared S whose name(s) is sub- authorized capacity(	Stanley T. Smith, person person oscribed to the within instrument	nally known to me on the basis of satisfactory of tand acknowledged to me that he/she/they executable acknowledged to me the person (s), or the me that he/she/they executable acknowledged to me the the person (s), and the the person (s) acknowledged to me the the the the the the the the the th	evidence to be the person(s) ated the same in his/her/their
WITNESS	my hand and official seal		
Date	, 2017		L.S.
-		Carl C. Stevens	
State of County of	) ) SS.: )		
appeared (whose name(s) is sub- authorized capacity(in the person(s) acted, ex-	Carl C. Stevens , person oscribed to the within instrument	nally known to me on the basis of satisfactory of and acknowledged to me that he/she/they execunature(s) on the instrument the person(s), or the	evidence to be the person(s) ated the same in his/her/their
Date_DOC,	8,,2017	Rodger D. Osborne	L.S.
State of <i>Floric</i> County of Mark	(C) SS.:		
appeared <u>R</u> whose name(s) is sub authorized capacity(i	scribed to the within instrument	nally known to me on the basis of satisfactory estand acknowledged to me that he/she/they executature(s) on the instrument the person(s), or the	ted the same in his/her/their
WITNESS 1  Docket No. MSD-00	my hand and official seal	GISELA BONET State of Florida-Notary Public Commission # GG 146225 My Commission Expires September 26, 2021	

Date <i>0</i> 2 Da	⊊ Č		L.S.
Date	, 2017	Kenneth E. Page	
State of Macali	ss.:		
	2-3 JAN	<pre></pre>	
appeared whose name(s) is	s subscribed to the within instrum	rsonally known to me on the basis of satisfactory evidence to tent and acknowledged to me that he/she/they executed the san	ne in his/her/the
_	city(ies), and that by his/her/their ed, executed the instrument.	signature(s) on the instrument the person(s), or the entity upon	i benair of whic
• • • • • • • • • • • • • • • • • • • •	ESS my hand and official seal	Sharren A. Lewis Notary Public - Maryland Montgomery County My Comm. Expires Oct. 20, 20	220
Date	, 2017		L.S.
·		Michael T. Wade	
State of	) ) SS.:		
County of	)		
On	2017 hafara ma	, Notary F	ublic, personal
appeared whose name(s) is authorized capac	Michael T. Wade, per subscribed to the within instrum	rsonally known to me on the basis of satisfactory evidence to the sand acknowledged to me that he/she/they executed the sand signature(s) on the instrument the person(s), or the entity upon	be the person( ne in his/her/the
WITNE	ESS my hand and official seal		
Doto	, 2017		L.S.
Date	, 2017	Jon Willoughby	22,32,
		·	
State of	) ) SS.:		
County of	)		
O	3017 hafam ma	Notaru E	ublic personal
appeared	Jon Willoughby ne	,, Notary I rsonally known to me on the basis of satisfactory evidence to	be the person
whose name(s) i	s subscribed to the within instrun	ent and acknowledged to me that he/she/they executed the san	ne in his/her/the
		signature(s) on the instrument the person(s), or the entity upon	
	ted, executed the instrument.		

Docket No. MSD-007.PCT.2 Joint Assignment Sheet 10 of 11

Date	, 2017		L.S.
		Kenneth Page	
State of	) ) SS.:		
County of	)		
appeared whose name(s) is s authorized capacit	Kenneth Page, personally subscribed to the within instrument and	known to me on the basis of satisfactory evide acknowledged to me that he/she/they executed the re(s) on the instrument the person(s), or the entity	nce to be the person(s) he same in his/her/their
WITNES	S my hand and official seal		
Date\$\frac{\frac{1}{2}\delta}{2}	<u> </u>	Michael T. Wade	L.S.
appeared whose name(s) is a authorized capacit	Michael T. Wade , personally subscribed to the within instrument and	known to me on the basis of satisfactory evider acknowledged to me that he/she/they executed the tre(s) on the instrument the person(s), or the entity	nce to be the person(s) he same in his/her/their
	S my hand and official seal	Sharren A. L. Notary Public - N Montgomery C My Comm. Expires O	faryland county
Date	, 2017		L.S.
		Jon Willoughby	
State of	) ) SS.:		
County of	)		
On	, 2017, before me,	known to me on the basis of satisfactory evide	otary Public, personally
whose name(s) is authorized capacit	subscribed to the within instrument and	exhown to me on the basis of satisfactory evide acknowledged to me that he/she/they executed the re(s) on the instrument the person(s), or the entity	he same in his/her/their

Docket No. MSD-007.PCT.2 Joint Assignment Sheet 10 of 11

Date	, 2017			L.S.
Kenneth Page			n Page	
State of	)			
	) SS.:			
County of	)			
On	, 2017, before me, _	***************************************	, Notary Pub	olic, personally
appeared <u>K</u> whose name(s) is sub- authorized capacity(is	enneth Page , person scribed to the within instrumen	onally known to me on the bant and acknowledged to me th	asis of satisfactory evidence to be at he/she/they executed the same the person(s), or the entity upon b	e the person(s) in his/her/their
WITNESS n	ny hand and official seal			
Date	, 2017	3 ft. 1 1	T W. J.	L.S.
		iviicnaei	T. Wade	
State of	) ) SS.:			
County of	) 33			
-	,			
appeared M whose name(s) is subsauthorized capacity(is	(ichael T. Wade , person , per	onally known to me on the boat and acknowledged to me the	, Notary Pub asis of satisfactory evidence to be at he/she/they executed the same the person(s), or the entity upon b	the person(s) in his/her/their
WITNESS n	ny hand and official seal			
A		***************************************		
Date 800	,2017	Jon Wil	loughby	L.S.
State of Waightin	A )			
			*	
appeared Jo whose name(s) is subsauthorized capacity(is	scribed to the within instrumer	onally known to me on the bi	Notary Pubasis of satisfactory evidence to be at he/she/they executed the same the person(s), or the entity upon b	the person(s) in his/her/their
•	ny hand and official seal		Sharren A. Lewis Notary Public - Maryland Montgomery County	

Docket No. MSD-007.PCT.2

Joint Assignment Sheet 10 of 11

PATENT REEL: 056444 FRAME: 0603

My Comm. Expires Oct. 20, 2020

Date Dec Oi	, 2017	<u> </u>	A. A.		L.S.
			Lei Wang	3	
State of Marie (word) SS County of Marie (word)	l.:				
County of Monty Description					
On <u>December 1</u>	, 2017, before m	e, Marr	en til	244	, Notary Public, personally
appeared <u>Lei Wang</u>	, personally	known to me on	the basis of sa	tisfactory evidence	e to be the person(s) whose
name(s) is subscribed to the w					
authorized capacity(ies), and the the person(s) acted, executed the		r signature(s) on t	he instrument th	ie person(s), or the	entity upon behalf of which
WITNESS my hand ar	id official seal			Sharrar	1 A. Lewis
				1	lic - Maryland
				, -	ery County
				My Comm. Exp	ires Oct. 20, 2020

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RECORDED: 06/01/2021