507178575 03/15/2022

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7225421

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KEITH KNAPP	05/23/2017
NATHANIEL JOSEPH MCCAFFREY	06/12/2017
RUTH MARKOWITZ	06/02/2017
JAMES SALEMME	05/25/2017
SEAN SULLIVAN	06/21/2017
ERNEST ELGIN	05/26/2017
RITA SALTIEL-BERZIN	05/25/2017

RECEIVING PARTY DATA

Name:	BECTON, DICKINSON AND COMPANY
Street Address:	ONE BECTON DRIVE
City:	FRANKLIN LAKES
State/Country:	NEW JERSEY
Postal Code:	07417

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15519402

CORRESPONDENCE DATA

Fax Number: (844)670-6009

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.

Email:dwpatents@dickinson-wright.comCorrespondent Name:DICKINSON WRIGHT PLLCAddress Line 1:1825 EYE ST. NW SUITE 900Address Line 4:WASHINGTON DC, D.C. 20006

ATTORNEY DOCKET NUMBER:	P-11010 (66810-2133)
NAME OF SUBMITTER:	CHRISTIAN MICHEL
SIGNATURE:	/Christian Michel/
DATE SIGNED:	03/15/2022
	•

Total Attachments: 15

PATENT REEL: 059270 FRAME: 0855

507178575

source=P-11010_66810-2133_Assignment_hand_SIGNATURES#page1.tif
source=P-11010_66810-2133_Assignment_hand_SIGNATURES#page2.tif
source=P-11010_66810-2133_Assignment_hand_SIGNATURES#page3.tif
source=P-11010_66810-2133_Assignment_hand_SIGNATURES#page4.tif
source=P-11010_66810-2133_Assignment_hand_SIGNATURES#page5.tif
source=P-11010_66810-2133_Assignment_hand_SIGNATURES#page6.tif
source=P-11010_66810-2133_Assignment_hand_SIGNATURES#page7.tif
source=P-11010_66810-2133_Assignment_hand_SIGNATURES#page8.tif
source=P-11010_66810-2133_Assignment_hand_SIGNATURES#page9.tif
source=P-11010_66810-2133_Assignment_hand_SIGNATURES#page10.tif
source=P-11010_66810-2133_Assignment_hand_SIGNATURES#page11.tif
source=P-11010_66810-2133_Assignment_hand_SIGNATURES#page12.tif
source=P-11010_66810-2133_Assignment_hand_SIGNATURES#page13.tif
source=P-11010_66810-2133_Assignment_hand_SIGNATURES#page14.tif
source=P-11010_66810-2133_Assignment_hand_SIGNATURES#page15.tif

PATENT REEL: 059270 FRAME: 0856

ASSIGNMENT

 Serial No.:
 62/066,351
 Filed: October 20, 2014

 Serial No.:
 PCT/US2015/056517
 Filed: October 20, 2015

 Serial No.:
 15/519,402
 Filed: April 14, 2017

WHEREAS, Keith Knapp, a citizen of the United States of America, residing at 30 Annabelle Lane, Warwick, New York; Nathaniel Joseph McCaffrey, a citizen of the United States of America, residing at 5323 Shelter Bay Avenue, Mill Valley, California; Jay Butterbrodt, a citizen of the United States of America, residing at 118 Brookview Drive, North Andover, Massachusetts; Margaret Taylor, a citizen of the United States of America, residing at 4 Augustine Road, Groton, Massachusetts, Ruth Markowitz, a citizen of the United States of America, whose mailing address is 1 Becton Drive, Franklin Lakes, New Jersey; Gary Searle, a citizen of the United States of America, residing at 245 Warren Drive, Norfolk, Massachusetts; Michael Gibney, a citizen of the United States of America, residing at One Haller Crescent, Chestnut Ridge, New York; James Salemme, a citizen of the United States of America, residing at 79 Castlewood Drive, Billerica, Massachusetts; James Walker, a citizen of the United States of America, whose mailing address is 1 Becton Drive, Franklin Lakes, New Jersey; Sean Sullivan, a citizen of the United States of America, residing at 11 North Irving Street, Ridgewood, New Jersey; Ernest Elgin, a citizen of the United States of America, whose mailing address is 1 Becton Drive, Franklin Lakes, New Jersey; and Rita Saltiel-Berzin, a citizen of the United States of America, whose mailing address is 1 Becton Drive, Franklin Lakes, New Jersey (hereinafter called "Assignor(s)"), have made certain new and useful inventions or discoveries relating to:

IMPROVED SYSTEMS AND METHODS FOR MEDICINE DELIVERY

for which they have executed a Declaration for an application for Letters Patent of the United States of America; and

WHEREAS, BECTON, DICKINSON AND COMPANY, a corporation of the State of New Jersey, whose address is One Becton Drive, Franklin Lakes, New Jersey 07417 (hereinafter called "Assignee"), is desirous of acquiring the entire right, title and interest therein.

NOW, THEREFORE, BE IT KNOWN that for and in consideration of the premises and in acknowledgment, confirmation and performance of obligations which arose out of the terms and conditions of Assignors' employment by Assignee at the time the invention was made, and other valuable considerations to them, the receipt and sufficiency of which are hereby acknowledged, Assignors have assigned, and transferred, and do hereby assign, and transfer unto said Assignee the entire right, title, and interest in and to all said inventions and discoveries disclosed in said applications, whose identification above by serial numbers and filing dates, when available, is hereby authorized, and in and to said applications, all substitutions, divisions, provisionals, conversions of provisionals, continuations, and continuations-in-part thereof, and in and to all Letters Patents, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals and reissues thereof, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment and sale had not been made; and

1 of 14

PATENT REEL: 059270 FRAME: 0857 Assignors hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue said Letters Patent in accordance with this Agreement; and

For the consideration aforesaid, Assignors covenant and agree with said Assignee that they have a full and unencumbered title to the inventions and discoveries above described and hereby assigned, which title they warrant unto said Assignee, its successors and assigns; and

For the consideration aforesaid, Assignors further covenant and agree that they will, whenever requested, but without cost to them promptly communicate to said Assignee or its representatives any facts known to them relating to said inventions and discoveries, testify in any interference or legal proceedings involving said inventions and discoveries, and execute any additional papers that may be necessary to enable said Assignee or its representatives, successors, nominees, or assigns to secure full and complete protection of the inventions and discoveries or that may be necessary to vest in Assignee the complete title to the inventions and discoveries and patents hereby conveyed and to enable it to record title.

Keith Knapp

DATE: 23 Mary 2017

STATE OF New Jersey COUNTY OF Barger

BE IT REMEMBERED, That on this day of day of day of 2017, before me, a Notary Public, personally appeared Keith Knapp, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

LINDA VAN LENTEN MOTANY PLANCOF NEW ARCEY Commission Equins 1/24/2018

IN TESTIMONY WHEREOF, Assign date subscribed below.	or has hereunto set his/her l	hand and seal on the
	Nathaniel Joseph McCaf	Trey
	DATE: 12 Jun	2017
STATE OF		
COUNTY OF		
BE IT REMEMBERED, That on this a Notary Public, personally appeared Nathaniel person named in and who executed the foregoin, made known to him/her the contents thereof, he/s and delivered the same as his/her voluntary ac expressed.	Joseph McCaffrey, who I g instrument in my presenc she did acknowledge that h	am satisfied is the e, and I having firs e/she signed, scaled
	Notary Public	

NT NONE SEE NO.

IN TESTIMONY WHEREOF, Assig date subscribed below.	gnor has hereunto set his/her hand and seal on the
	Jay Butterbrodt
	DATE:
CTATE OF	
STATE OF COUNTY OF	
BE IT REMEMBERED , That on this a Notary Public, personally appeared Jay Butter and who executed the foregoing instrument in	day of, 2017, before me, rbrodt, who I am satisfied is the person named in my presence, and I having first made known to wledge that he/she signed, sealed, and delivered he uses and purposes therein expressed.
	Notary Public

IN TESTIMONY WHEREOF, Assig date subscribed below.	nor has hereunto set his/her hand and seal on the
	Margaret Taylor
	DATE:
STATE OF	
COUNTY OF	
a Notary Public, personally appeared Margaret 7 and who executed the foregoing instrument in	day of, 2017, before me, Taylor, who I am satisfied is the person named in my presence, and I having first made known to wledge that he/she signed, sealed, and delivered e uses and purposes therein expressed.
	Notary Public

Ruth Markowitz

DATE: 0-2-/7

STATE OF New Jersey
COUNTY OF Hudson

BE IT REMEMBERED, That on this ______ day of ________, 2017, before me, a Notary Public, personally appeared Ruth Markowitz, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

TINISHA R WALLACE
Notary Public
State of New Jersey
My Commission Expires June 25, 2017

IN TESTIMONY WHEREOF, Assign date subscribed below.	nor has hereunto set his/her hand and seal on the
	Gary Searle
	DATE:
STATE OF	
COUNTY OF	
BE IT REMEMBERED , That on this _ a Notary Public, personally appeared Gary Searle who executed the foregoing instrument in my him/her the contents thereof, he/she did acknow the same as his/her voluntary act and deed for the	presence, and I having first made known to ledge that he/she signed, sealed, and delivered
	Notary Public
	Indiary Fudite

IN TESTIMONY WHEREOF, Assignor date subscribed below.	has hereunto set his/her hand and seal on the
	Michael Gibney
	DATE:
STATE OF	
COUNTY OF	
BE IT REMEMBERED , That on this day of, 2017, before me, a Notary Public, personally appeared Michael Gibney, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.	
	Notary Public

James Šalemme

DATE: 5-25- 2017

STATE OF MASSACUSETTS
COUNTY OF SUFFOLK

JONATHAN RIBEIRO
Notary Public
Massachusetts
My Commission Expires
Sep 21, 2023

Notary Public

IN TESTIMONY WHEREOF, Assign date subscribed below.	nor has hereunto set his/her hand and seal on the
	James Walker
	DATE:
STATE OF	
COUNTY OF	
BE IT REMEMBERED , That on this _ a Notary Public, personally appeared James Wa and who executed the foregoing instrument in thim/her the contents thereof, he/she did acknow the same as his/her voluntary act and deed for the	my presence, and I having first made known to vledge that he/she signed, sealed, and delivered
	Notary Public

11 of 14

Sean Sullivan

DATE: 06 21/2017

STATE OF NEWYDEK
COUNTY OF NEWYDEK

Notary Public

MARIA C. SANTIAGO Notary Public, State of New York No. 01SA4939247 Qualified in New York County Commission Expires Aug. 24, 2019

IN TESTIMONY WHEREOF, Assignor has hereunto set his/her hand and seal on the date subscribed below.
Ernest Elgin DATE: 5/96/17
STATE OF
COUNTY OF
BE IT REMEMBERED, That on this
Notary Public

Rita Saltiel-Berzin

date: <u>5/95/2017</u>

STATE OF New Jersey COUNTY OF Bergen

BE IT REMEMBERED. That on this $25\frac{16}{2}$ day of 2017, before me, a Notary Public, personally appeared Rita Saltiel-Berzin, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

CHRISTINE PASQUARIELLO

NOTARY PUBLIC

STATE OF NEW JERSEY
MY COMMISSION EXPIRES AUGUST 18, 2019

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California CONTRA COSTA County of On Tune 12, 2017 before me,	BRENDA K MALONE,NOTARY PUBLIC
personally appeared 1/2 th	Here Insert Name and Title of the Office (
whereined in the within instrument and ac	actory evidence to be the person(s) whose name(s) is/am knowledged to me that he/she/they executed the same in at by his/her/their-signature(s) on the instrument the person(s) n(s) acted, executed the instrument.
PRINCA R. MALCHE Commission & 2087 2857 Solary Public - California Conto Classic County	I certify under PENALTY OF PERJURY under the law: of the State of California that the foregoing paragraph is true and correct.
	WITNESS my hand and official seal.
A Commission May 1, 2214	M 301/
	Signature // Value / //////
	Signature of Notary Public
Pack Nessy Sed Above	
and the second s	TIONAL
Though the information below is not required by and could prevent fraudulent remova	TIONAL y law, it may prove valuable to persons relying on the document at and reattachment of this furn to another document.
Though the information below is not required by and could prevent translutent remove	TIONAL y law, it may prove valuable to persons relying on the document at and reattachment of this furn to another document.
Though the information below is not required by and could prevent fraudulant removal pescription of Attached Document Title or Type of Document:	TIONAL y law, it may prove valuable to persons relying on the document at and reattachment of this furn to another document.
Though the information below is not required by and could prevent fraudulent remove Description of Attached Document Title or Type of Document: 125510	Y law, it may prove valuable to persons relying on the document of and reattachment of this form to another document. Number of Pages:
Though the information below is not required by and could prevent fraudulent remove pescription of Attached Document itle or Type of Document: 15510	Y law, it may prove valuable to persons relying on the document of and reattachment of this furn to another document. Number of Pages:
Though the information below is not required by and could prevent fraudulent remove pescription of Attached Document little or Type of Document:	Y law, it may prove valuable to persons relying on the document of and reattachment of this fam to another document. Number of Pages: 4
Though the information below is not required by and could prevent traudulent remove lescription of Attached Document litle or Type of Document:	TIONAL y law, it may prove valuable to persons relying on the document y and reattachment of this form to another document. NUMENT P-IIOIO Number of Pages: Compared Name:
Though the information below is not required by and could prevent fraudulent remove lescription of Attached Document little or Type of Document: 1000 1000 1000 1000 1000 1000 1000 10	TIONAL y law, it may prove valuable to persons relying on the document y and reattachment of this form to another document. NUMENT P-IIOIO Number of Pages: 4 Signer's Name:
Though the information below is not required by and could prevent translutent remove pescription of Attached Document little or Type of Document: A SSIC Cocument Date: A A A A A A A A A A A A A A A A A A A	TIONAL y Isw, it may prove valuable to persons relying on the document at and reattachment of this fami to another document. Number of Pages: Comporate Officer — Title(s):
Though the information below is not required by and could prevent fraudulent remove pescription of Attached Document itle or Type of Document: locument Date: ligner(s) Other Than Named Above: lapacity(les) Claimed by Signer(s) ligner's Name: Named Above: I Corporate Officer — Title(s): I Individual Partner — D Limited General	Y law, it may prove valuable to persons relying on the document of this furn to another document. Number of Pages: Signer's Name: Individual
Though the information below is not required by and could prevent fraudulent remove pescription of Attached Document Title or Type of Document:	TIONAL y taw, it may prove valuable to persons relying on the document y and restractment of this form to another document. Number of Pages: Comporate Officer — Title(s): Partner — Limited General
Though the information below is not required by and could prevent fraudulent remove Description of Attached Document Title or Type of Document:	TIONAL y law, it may prove valuable to persons relying on the document y and reattachment of this form to another document. Number of Pages: Number of Pages: Comporate Officer — Title(s): Individual Partner — Limited General Attorney in Fact Guardian or Conservator
Though the information below is not required by and could prevent fraudulent remove Description of Attached Document Title or Type of Document: Document Date: Digner(s) Other Than Named Above: Digner(s) Claimed by Signer(s) Digner's Name: Digner's N	TIONAL y taw, it may prove valuable to persons relying on the document of and realtachment of this form to another document. Number of Pages: Comporate Officer — Title(s): Individual Partner — Limited General Attorney in Fabi

PATENT

REEL: 059270 FRAME: 0871

RECORDED: 03/15/2022