PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FRANK MARTIN	01/03/2019

RECEIVING PARTY DATA

Name:	BECTON, DICKINSON AND COMPANY
Street Address:	1 BECTON DRIVE
City:	FRANKLIN LAKES
State/Country:	NEW JERSEY
Postal Code:	07417

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	14443490
Application Number:	16223232

CORRESPONDENCE DATA

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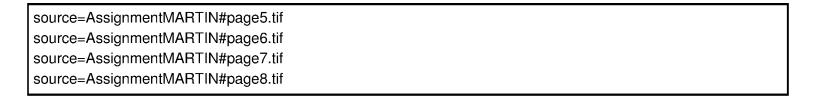
ATTORNEY DOCKET NUMBER:	4684-154200
NAME OF SUBMITTER:	LARA NORTHROP QUEEN
SIGNATURE:	/Lara Northrop Queen/
DATE SIGNED:	01/17/2019

Total Attachments: 8

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> PATENT REEL: 048051 FRAME: 0428

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RECORDATION FO PATENT	
To the Director of the U.S. Patent and Trademark Office: Please	e record the attached documents or the new address(es) below.
1. Name of conveying party(ies) Frank Martin	2. Name and address of receiving party(ies) Name: BECTON, DICKINSON AND COMPANY Internal Address:
A. Patent Application No.(s) 14/443,490	Street Address: 1 Becton Drive City: Franklin Lakes State: New Jersey Country: US Zip: 07417 Additional name(s) & address(es) attached? Yes No document serves as an Oath/Declaration (37 CFR 1.63). B. Patent No.(s)
16/223,232 PCT/US2013/070935 Additional numbers att 5. Name and address to whom correspondence concerning document should be mailed:	ached? Yes No 6. Total number of applications and patents involved: 3
Name: Lara Northrop Queen	7. Total fee (37 CFR 1.21(h) & 3.41) \$
Street Address: One Gateway Center 420 Ft. Duquesne Blvd., Ste 1200	Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)
City: Pittsburgh	8. Payment Information
State: PA Zip:15222	
Phone Number: 412-471-8815 Docket Number: 4684 - 154200 Email Address: assignments@webblaw.com	Deposit Account NumberAuthorized User Name
9. Signature: /Lara Northrop Quee	en/ January 17, 2019
Signature Lara Northrop Queen Name of Person Signing Documents to be recorded (including cover sheet Mail Stop Assignment Recordation Services, Director of	

<u>ASSIGNMENT</u>

Serial No.: 14/443,490

Filed:

May 18, 2015

Serial No.:

PCT/US2013/070935

Filed:

November 20, 2013

WHEREAS, Matthew FERRITER, Frank MARTIN, Vincent J. SULLIVAN, Scott N. DANHOF, and Eric G. HASSENPFLUG; citizens of the United States of America, (hereinafter called "Assignors"), have made certain new and useful inventions or discoveries relating to:

Valve Permitting Mixing in a Drug Delivery Device

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 New Jersey, (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 application, whose identification above by serial number and filing date, when available, is hereby authorized, and in and to said application, all substitutions, divisions, provisionals, conversions of provisionals and continuations or 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

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.

	Matthew FERRITER
	DATE:
WITNESS SIGNATURE	
WITNESS NAME	

on the dates subscribed below.

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals on the dates subscribed below.

Frank MARTIN

DATE: 1-3-2019

WITNESS SIGNATURE

WITNESS NAME STEVE BROOKS

	Vincent J. SULLIVAN
	DATE:
STATE OF	
COUNTY OF	
2015, before me, a Notary Public	D , that on this day of c, personally appeared Vincent J. SULLIVAN , who I are and who executed the foregoing instrument in my presence
I and having first made known to	him/her the contents thereof, he/she did acknowledge tha red the same as his/her voluntary act and deed for the use

	Scott N. DANHOF
	DATE:
STATE OF	
COUNTY OF	
2015, before me, a Notary Publi is the person named in and wh	ED , that on this day of, ic, personally appeared Scott N. Danhof, who I am satisfied to executed the foregoing instrument in my presence, I and im/her the contents thereof, he/she did acknowledge that
	ered the same as his/her voluntary act and deed for the uses

	Eric G. HASSENPFLUG
	<i>DATE</i> :
STATE OF	
COUNTY OF	.ss:
2015, before me, a Notar am satisfied is the perso presence, I and having	ERED, that on this day of Public, personally appeared Eric G. HASSENPFLUG, we named in and who executed the foregoing instrument in rst made known to him/her the contents thereof, he/she igned, sealed, and delivered the same as his/her voluntary names therein expressed.
and deed for the uses ana	ui poses increme expressed.

RECORDED: 01/17/2019