

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5279720

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
VINCENT J. SULLIVAN	11/14/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BECTON, DICKINSON AND COMPANY
<b>Street Address:</b>	1 BECTON DRIVE
<b>City:</b>	FRANKLIN LAKES
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	07417
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14443490
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(412)471-4094
<i>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.</i>	
<b>Phone:</b>	412-471-8815
<b>Email:</b>	assignments@webblaw.com
<b>Correspondent Name:</b>	THE WEBB LAW FIRM
<b>Address Line 1:</b>	420 FT. DUQUESNE BLVD., SUITE 1200
<b>Address Line 2:</b>	ONE GATEWAY CENTER
<b>Address Line 4:</b>	PITTSBURGH, PENNSYLVANIA 15222
<b>ATTORNEY DOCKET NUMBER:</b>	4684-154200
<b>NAME OF SUBMITTER:</b>	LARA NORTROP QUEEN
<b>SIGNATURE:</b>	/Lara Northrop Queen/
<b>DATE SIGNED:</b>	12/12/2018
<b>Total Attachments: 7</b>	
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# RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

Vincent J. Sullivan

Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**

Name: BECTON, DICKINSON AND COMPANY

Internal Address: \_\_\_\_\_

Street Address: 1 Becton Drive

City: Franklin Lakes

State: New Jersey

Country: US Zip: 07417

Additional name(s) & address(es) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) Nov. 14, 2018

- Assignment  Merger
- Security Agreement  Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other \_\_\_\_\_

**4. Application or patent number(s):**

This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No.(s)

14/443,490  
PCT/US2013/070935

B. Patent No.(s)

Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Lara Northrop Queen

Internal Address: The Webb Law Firm

Street Address: One Gateway Center  
420 Ft. Duquesne Blvd., Ste 1200

City: Pittsburgh

State: PA Zip: 15222

Phone Number: 412-471-8815

Docket Number: 4684 - 154200 (P-09865)

Email Address: assignments@webblaw.com

**6. Total number of applications and patents involved: 2**

7. Total fee (37 CFR 1.21(h) & 3.41) \$ \_\_\_\_\_

- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

**8. Payment Information**

Deposit Account Number \_\_\_\_\_

Authorized User Name \_\_\_\_\_

**9. Signature:**

/Lara Northrop Queen/

Signature

December 12, 2018

Date

Lara Northrop Queen  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

7

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**ASSIGNMENT**

Serial No.:	14/443,490	Filed:	May 18, 2015
Serial No.:	PCT/US2013/070935	Filed:	November 20, 2013
Serial No.:	61/729,824	Filed:	November 26, 2012

*WHEREAS, Matthew FERRITER, Frank MARTIN, Vincent J. SULLIVAN, Scott N. DANHOF, and Eric G. HASSENPFUG; 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*

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*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.*

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

\_\_\_\_\_  
Matthew FERRITER

DATE: \_\_\_\_\_

STATE OF \_\_\_\_\_ )

ss:

COUNTY OF \_\_\_\_\_ )

*BE IT REMEMBERED, that on this \_\_\_\_\_ day of \_\_\_\_\_, 2015, before me, a Notary Public, personally appeared Matthew Ferriter, who I am satisfied is the person named in 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 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  
My Commission Expires:

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

\_\_\_\_\_  
Frank MARTIN

DATE: \_\_\_\_\_

STATE OF \_\_\_\_\_ )

ss:

COUNTY OF \_\_\_\_\_ )

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**BE IT REMEMBERED**, that on this \_\_\_\_\_ day of \_\_\_\_\_, 2015, before me, a Notary Public, personally appeared **Frank Martin**, who I am satisfied is the person named in 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 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  
My Commission Expires:

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

Vincent J. Sullivan  
Vincent J. SULLIVAN

DATE: November 19, 2018

STATE OF NORTH CAROLINA )

COUNTY OF Durham ) SS:

~~1868~~ **BE IT REMEMBERED**, that on this 14<sup>th</sup> day of November, 2015, before me, a Notary Public, personally appeared **Vincent J. SULLIVAN**, who I am satisfied is the person named in 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 that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

**GAIL C BALLEW**  
**NOTARY PUBLIC**  
**DURHAM COUNTY, NC**  
My Commission Expires 8-25-2020

Gail C. Ballew  
Notary Public Gail C. Ballew  
My Commission Expires: 8-25-2020

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

\_\_\_\_\_  
Scott N. DANHOF

DATE: \_\_\_\_\_

STATE OF \_\_\_\_\_ )

ss:

COUNTY OF \_\_\_\_\_ )

**BE IT REMEMBERED**, that on this \_\_\_\_\_ day of \_\_\_\_\_, 2015, before me, a Notary Public, personally appeared **Scott N. Danhof**, who I am satisfied is the person named in 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 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  
My Commission Expires:

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

\_\_\_\_\_  
Eric G. HASSENPFUG

DATE: \_\_\_\_\_

STATE OF \_\_\_\_\_ )

ss:

COUNTY OF \_\_\_\_\_ )

**BE IT REMEMBERED**, that on this \_\_\_\_\_ day of \_\_\_\_\_, 2015, before me, a Notary Public, personally appeared **Eric G. HASSENPFUG**, who I am satisfied is the person named in and who executed the foregoing instrument in my



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*presence, I and 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  
My Commission Expires:*