

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
WILLIAM E. HIGGINS	03/09/2018
RAHUL KHARE	03/09/2018
SCOTT A. MERRITT	03/17/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE PENN STATE RESEARCH FOUNDATION
<b>Street Address:</b>	304 OLD MAIN
<b>City:</b>	UNIVERSITY PARK
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	16802
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15928974
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(734)913-6007
<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>	(734) 913-9300
<b>Email:</b>	Aniko.Taganyi@DINSMORE.COM
<b>Correspondent Name:</b>	DOUGLAS L. WATHEN
<b>Address Line 1:</b>	DINSMORE & SHOHL LLP
<b>Address Line 2:</b>	900 WILSHIRE DRIVE, SUITE 300
<b>Address Line 4:</b>	TROY, MICHIGAN 48084
<b>ATTORNEY DOCKET NUMBER:</b>	36PST49503NA
<b>NAME OF SUBMITTER:</b>	DOUGLAS L. WATHEN
<b>SIGNATURE:</b>	/Douglas L. Wathen/
<b>DATE SIGNED:</b>	03/22/2018
<b>Total Attachments: 3</b>	
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source=36PST49503NA Assignment#page3.tif	

## ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT**, made by William E. Higgins; Rahul Khare; and Scott A. Merritt (hereinafter referred to as Assignors), residing at 141 Legion Lane, State College, Pennsylvania 16801; 600 Chatham Park Dr., Apt 109, Pittsburgh, PA 15220; and 19478 W. 52nd Dr, Golden, Colorado 80403, respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in IMAGE-BASED GLOBAL REGISTRATION METHOD APPLICABLE TO BRONCHOSCOPY GUIDANCE, set forth in a Utility application for Letters Patent of the United States, filed on March 22, 2018 as U.S. Application No. 15/928,974; and

**WHEREAS**, The Penn State Research Foundation, having its principal place of business at 304 Old Main, University Park, Pennsylvania 16802 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

**AND** for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Utility application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which 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:

DINSMORE & SHOHL LLP  
All practitioners at Customer Number 25006

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date:

3/9/18

Signature:

William E. Higgins

Date:

3/9/18

Signature:

Rahul Khare

Date:

Signature:

Scott A. Merritt

**AND** for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Utility application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

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Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
William E. Higgins

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Rahul Khare

Date: 2018-03-17

Signature:  \_\_\_\_\_  
Scott A. Merritt