

## 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>
JUSTIN HANES	04/27/2017
KATHARINA MAISEL	08/24/2017
LAURA M. ENSIGN	04/27/2017
RICHARD CONE	04/03/2018
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<b>City:</b>	BALTIMORE
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<b>Postal Code:</b>	21218
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15771961
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
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<b>ATTORNEY DOCKET NUMBER:</b>	JHU C 13812
<b>NAME OF SUBMITTER:</b>	HEATHER BIFFLE
<b>SIGNATURE:</b>	/Heather Biffle/
<b>DATE SIGNED:</b>	05/02/2018
<b>Total Attachments: 6</b>	
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## ASSIGNMENT

We, Justin Hanes of 6306 Pinehurst Road, Baltimore, Maryland 21212, Katharina Maisel of 4055 Penrose Drive, Troy, Michigan 48098, Laura M. Ensign of 228 E. Burke Avenue, Towson, Maryland 21286 and Richard Cone of 302 Oakdale Road, Baltimore, Maryland 21210, in consideration of ten dollars and other valuable consideration paid to us by The Johns Hopkins University, a university of the State of Maryland, having its principal place of business at 3400 N. Charles Street, Baltimore, Maryland 21218 (hereinafter said "Assignee"), the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Assignee, its successors and assigns, the entire interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in (1) a certain invention(s) and/or improvement(s) in "*MUCUS PENETRATING PARTICLES WITH HIGH MOLECULAR WEIGHT AND DENSE COATINGS*" described in International Application No. PCT/US2016/059661 filed in the United States Receiving Office for the Patent Cooperation Treaty on October 31, 2016, by The Johns Hopkins University, and in the provisional application to which priority is claimed, being U.S. Provisional Application Serial No. 62/248,432 filed in the United States Patent and Trademark Office on October 30, 2015, (2) International Application No. PCT/US2016/059661 filed October 31, 2016 and U.S. Provisional Application No. 62/248,432 filed October 30, 2015, and (3) all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention(s), or on said application(s), or any provisional, divisional, continuation, reissue, or other applications based thereon. We agree, for ourselves and our executors and administrators, with said Assignee and its successors and assigns, but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to said Assignee, with specifications and claims in such form as shall be approved by the counsel of said Assignee, and to vest and confirm in said Assignee, its successors and assigns, the legal title to all such patents.

Title: "MUCUS PENETRATING PARTICLES WITH HIGH MOLECULAR WEIGHT AND DENSE COATINGS"  
By: The Johns Hopkins University  
International Application No. PCT/US2016/059661  
Filed: October 31, 2016  
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And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said Assignee, its successors and assigns.

And we each individually do hereby state (1) that the application(s) was made or was authorized to be made by each of us and (2) that we each believe ourselves to be the original inventor or joint inventor of a claimed invention in the application(s).

And we each individually do hereby authorize Assignee's attorney to correct any typographical errors on this form, if necessary, and to complete this form by the addition of the application number(s), application filed date(s), and attorney docket number(s), if necessary.

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By: The Johns Hopkins University  
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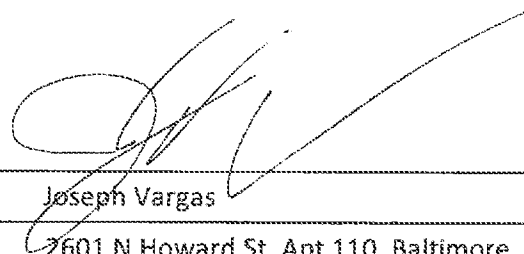
                     APR 27 2017

WITNESS my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.



Justin Hanes

Witnesses:

1. Signed:   
Printed Name: Joseph Vargas  
Address: 2601 N Howard St, Apt 110, Baltimore, MD 21218



2. Signed: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Address: \_\_\_\_\_

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WITNESS my hand and seal this 24 day of August, 2017.

  
Katharina Maisel

Witnesses:

1. Signed:   
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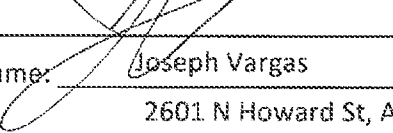
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APR 27 2017

WITNESS my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

  
\_\_\_\_\_  
Laura Ensign

Witnesses:

1. Signed:   
Printed Name: Joseph Vargas  
Address: 2601 N Howard St, Apt 110, Baltimore, MD 21218  
\_\_\_\_\_

2. Signed: \_\_\_\_\_  
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\_\_\_\_\_

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WITNESS my hand and seal this 3<sup>rd</sup> day of April, 2018

Richard A Cone

Richard Cone

Witnesses:

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