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| <b>PATENT ASSIGNMENT COVER SHEET</b> |
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5068293

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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>          |
| MARTIN THUO   | 07/02/2018                     |
| IAN TEVIS   | 07/16/2018                     |
| STEPHANIE OYOLA-REYNOSO   | 07/20/2018                     |
| <b>RECEIVING PARTY DATA</b>   |                                |
| <b>Name:</b>  | MASSACHUSETTS, UNIVERSITY OF   |
| <b>Street Address:</b>  | ONE BEACON STREET, 31ST FLOOR  |
| <b>City:</b>  | BOSTON                         |
| <b>State/Country:</b>   | MASSACHUSETTS                  |
| <b>Postal Code:</b>   | 02108                          |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                |
| <b>Property Type</b>  | <b>Number</b>                  |
| <b>Application Number:</b>  | 15521510                       |
| <b>CORRESPONDENCE DATA</b>  |                                |
| <b>Fax Number:</b>  | (617)395-7070                  |
| <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>   | (617) 395-7048                 |
| <b>Email:</b>   | GKGPatents@LALaw.com           |
| <b>Correspondent Name:</b>  | LANDO & ANASTASI, LLP          |
| <b>Address Line 1:</b>  | RIVERFRONT OFFICE PARK         |
| <b>Address Line 2:</b>  | ONE MAIN STREET, SUITE 1100    |
| <b>Address Line 4:</b>  | CAMBRIDGE, MASSACHUSETTS 02142 |
| <b>ATTORNEY DOCKET NUMBER:</b>  | M2040-7015US                   |
| <b>NAME OF SUBMITTER:</b>   | GREGORY K. GERSTENZANG         |
| <b>SIGNATURE:</b>   | /Gregory K. Gerstenzang/       |
| <b>DATE SIGNED:</b>   | 07/26/2018                     |
| This document serves as an Oath/Declaration (37 CFR 1.63).  |                                |
| <b>Total Attachments: 3</b>   |                                |
| source=Executed Combined Assignment and Declaration#page1.tif   |                                |
| source=Executed Combined Assignment and Declaration#page2.tif   |                                |



**DECLARATION AND ASSIGNMENT**

Title of Invention: **FABRICATION OF MICRO- AND NANO-PARTICLE COATED MATERIALS**

As a below named inventor, I hereby declare that:

This declaration is directed to:

[x] United States Patent Application Serial No. 15/521,510 (U.S. National Phase of International (PCT) Patent Application Serial No. PCT/US2015/058369 filed on October 30, 2015)

The above-identified application was made or authorized to be made by me, and I have reviewed and understand the contents of the application, including the claims.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, each undersigned inventor has made certain inventions, improvements, and discoveries (herein referred to as the "INVENTION") disclosed in the above-identified patent application (herein referred to as the "APPLICATION");

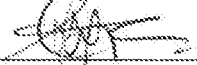
Whereas, THE UNIVERSITY OF MASSACHUSETTS, having a business address at One Beacon Street, 31<sup>st</sup> Floor, Boston, MA 02108 (herein referred to as "ASSIGNEE"), desires to attain or has attained, and each undersigned inventor desires to grant or has granted to ASSIGNEE, the entire worldwide right, title, and interest in and to the INVENTION and in and to any and all patent applications and patents directed thereto;

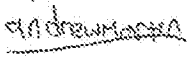
Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I, one of the undersigned inventors (herein referred to "ASSIGNOR"), hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in any and all countries and jurisdictions, including all divisionals, continuations, continuations-in-part, reissues, reexaminations, renewals, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents, and further including any right to sue for past infringement and to recover and retain damages and profits in respect thereof. In addition, I hereby authorize and request any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and I agree for myself and my respective heirs, legal representatives, and assigns, without further compensation, to execute any and all documents, oaths and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

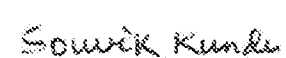
I also hereby grant ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Declaration and Assignment any further identification of the APPLICATION (including, but not limited to, patent Application Number and filing date).

I hereby covenant that I have the full right to convey the entire right, title, and interest herein assigned and that I have not executed and will not execute any agreement in conflict herewith.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Signature:  Date: 07/02/2018  
Legal Name of Inventor: **Martin Thuo**

 Date: 7/2/18  
Witness Signature  
Andrew Martin  
Printed Legal Name of Witness

 Date: 07/02/2018  
Witness Signature  
SOUVIK KUNDU  
Printed Legal Name of Witness

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Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I, one of the undersigned inventors (herein referred to "ASSIGNOR"), hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in any and all countries and jurisdictions, including all divisionals, continuations, continuations-in-part, reissues, reexaminations, renewals, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents, and further including any right to sue for past infringement and to recover and retain damages and profits in respect thereof. In addition, I hereby authorize and request any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and I agree for myself and my respective heirs, legal representatives, and assigns, without further compensation, to execute any and all documents, oaths and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

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Signature: *Ian Tevis* Date: 07/16/2018

Legal Name of Inventor: **Ian Tevis**

*Andrew Martin* Date: 7/16/18

Witness Signature  
Andrew Martin

Printed Legal Name of Witness

*Christophe Frankiewicz* Date: 7/16/18

Witness Signature  
Christophe Frankiewicz

Printed Legal Name of Witness

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Signature: *Stephanie Oyola-Reynoso* Date: 20/July/2018

Legal Name of Inventor: Stephanie Oyola-Reynoso

Witness Signature: *Abimael Galan* Date: 7/20/18

Witness Signature: *Para Reynoso*

Printed Legal Name of Witness

Witness Signature: *Abimael Galan* Date: 20/July/2018

Witness Signature: *Abimael Galan*

Printed Legal Name of Witness