

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| GABRIEL P. LOPEZ | 03/28/2014 |
| VRAD W. LEVERING | 03/28/2014 |
| XUANHE ZHAO | 03/28/2014 |
| PHANINDHAR SHIVAPOOJA | 03/28/2014 |
| QIMING WANG | 03/28/2014 |
| RECEIVING PARTY DATA | |
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| City: | DURHAM |
| State/Country: | NORTH CAROLINA |
| Postal Code: | 27705 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14347672 |
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| ATTORNEY DOCKET NUMBER: | 210/8 UTIL |
| NAME OF SUBMITTER: | BENTLEY J. OLIVE |
| SIGNATURE: | /Bentley J. Olive/ |
| DATE SIGNED: | 04/30/2014 |
| Total Attachments: 5 | |
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ASSIGNMENT

WHEREAS, We, **Gabriel P. Lopez** of Durham, North Carolina; **Vrad W. Levering** of Durham, North Carolina; **Xuanhe Zhao** of Durham, North Carolina; **Phanindhar Shivapooja** of Durham, North Carolina; and **Qiming Wang** of Durham, North Carolina (hereinafter "Assignor"), have invented certain new and useful improvements in **DEVICES AND METHODS FOR ACTIVE BIOFOULING CONTROL**, for which Application was made on March 27, 2014, as U.S. Utility Patent Application Serial No. 14/347,672, and which claims priority from Patent Cooperation Treaty Application No. PCT/US12/58000 filed September 28, 2012, and which further claims priority from U.S. Provisional Patent Application Serial No. 61/540,051 filed September 28, 2011.

AND, WHEREAS, **Duke University**, a university located in the City of Durham, State of North Carolina (hereinafter "Assignee"), is desirous of acquiring an interest therein.

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has assigned and by these presents does hereby sell, assign, transfer, and convey unto the Assignee, its successors and assigns, his entire right, title, and interest in and to the invention and application, including the right to sue for past infringements and any other prior occurring rights, provided any such rights exist, and in and to any and all domestic and foreign patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America, and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with his right to claim the priority of said application in all foreign countries in accordance with the International Convention, 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 Assignor if this assignment and sale had not been made. Assignor further assigns to Assignee the right to claim entitlement and/or priority to any applications that entitlement or priority may be claimed for this or any later filed application. The assignment of the right to claim entitlement and/or priority is executed *nunc pro tunc* and is

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considered effective as of the filing date of the earliest application to which priority and/or entitlement is claimed.

Assignor hereby requests that said Letters Patent be issued in accordance with this assignment.

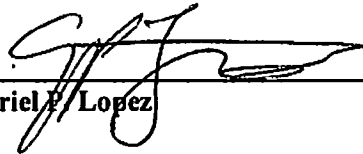
Assignor further covenants and agrees that, at the time of the execution and delivery of these presents, Assignor possesses full title to the invention and application above-mentioned, and that he has the unencumbered right and authority to make this assignment.

Assignor further covenants and agrees, and likewise binds his heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to him relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the said invention in all countries and to vest in the Assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

<< Signature Page Follows >>


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Executed this 28 day of March, 2014.



Gabriel Lopez

Witnessed by:

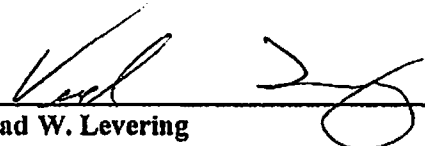


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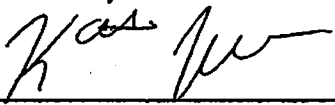
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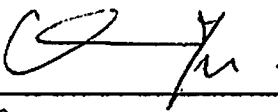


Vlad W. Levering

Witnessed by:



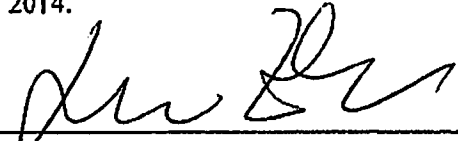
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Executed this 28 day of March, 2014.


Xuaphe Zhao

Witnessed by:


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Name Date

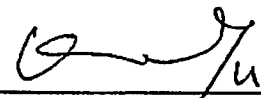
 3/28/14
Name Date

Executed this 28th day of March, 2014.


Phanindhar Shivapooja


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Name Date

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Name Date

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Executed this 28 day of March, 2014.

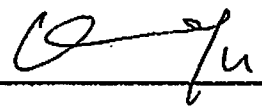


Qiming Wang

Witnessed by:

 3/28/14

Name Date

 3/28/14

Name Date