

## PATENT ASSIGNMENT

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| SUBMISSION TYPE:   | NEW ASSIGNMENT   |               |                |               |            |                   |            |
|--|--|---------------|----------------|---------------|------------|-------------------|------------|
| NATURE OF CONVEYANCE:  | ASSIGNMENT   |               |                |               |            |                   |            |
| CONVEYING PARTY DATA   |  |               |                |               |            |                   |            |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Noah S. Adams</td> <td>06/13/2013</td> </tr> <tr> <td>Barnaby J. Watten</td> <td>06/14/2013</td> </tr> </tbody> </table> |  | Name          | Execution Date | Noah S. Adams | 06/13/2013 | Barnaby J. Watten | 06/14/2013 |
| Name   | Execution Date   |               |                |               |            |                   |            |
| Noah S. Adams  | 06/13/2013   |               |                |               |            |                   |            |
| Barnaby J. Watten  | 06/14/2013   |               |                |               |            |                   |            |
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| PROPERTY NUMBERS Total: 1  |  |               |                |               |            |                   |            |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US1345560</td> </tr> </tbody> </table>   |  | Property Type | Number         | PCT Number:   | US1345560  |                   |            |
| Property Type  | Number   |               |                |               |            |                   |            |
| PCT Number:  | US1345560  |               |                |               |            |                   |            |
| CORRESPONDENCE DATA  |  |               |                |               |            |                   |            |
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| ATTORNEY DOCKET NUMBER:  | USGS-30-PCT  |               |                |               |            |                   |            |
| NAME OF SUBMITTER:   | Christine Joan Gilsdorf  |               |                |               |            |                   |            |
| Signature:   | /Christine Joan Gilsdorf/  |               |                |               |            |                   |            |

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Date:

06/25/2013

Total Attachments: 3

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ASSIGNMENT OF INVENTIONTitle of Invention: NOZZLE MIXING METHODS FOR SHIP BALLAST TANKSInventor(s): Noah S. Adams and Barnaby J. Watten\*Application Serial No.: PCT/US13/45560\*Date Declaration Executed: June 13, 2013 and June 14, 2013 \*Filing Date: June 13, 2013

(\*Data not known at execution may be added for better identification)

I (We), the undersigned, am the inventor(s), of the above-entitled invention, and in consideration of the rights of the Government of the United States of America acquired by virtue of the circumstances under which the above-entitled invention was made, hereby:

1. Assign to the Government of the United States, as represented by the Secretary of the Department of the Interior, the entire right, title, and interest throughout the United States, its Territories, Possessions, and Puerto Rico, in and to the above-entitled invention and United States application for patent, including any and all divisional, continuation, continuation-in-part, re-examination, reissue, and comparable applications based on the subject United States application, and any and all Letters Patent or comparable rights issuing thereon in the United States, together with all rights of priority based on the filing of any of the aforesaid applications arising under any and all international agreements to which the United States of America adheres.

2. Agree to assign to the Government upon its request, any and all foreign patent applications, including any and all divisional, continuation, continuation-in-part, re-examination, reissue, and comparable applications based on any of the aforesaid foreign patent applications, in all foreign countries, provided that where the Government fails to cause application to be filed in any particular foreign country, the Government shall relinquish all right, title and interest in the subject invention in such foreign country, subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent that may issue on the subject invention in such foreign country, including the power to issue sublicenses for use on behalf of the Government and/or furtherance of the foreign policies of the Government.

3. Agree, upon request of the Government, to execute any and all lawful papers and make all rightful declarations and oaths as needed for the filing and prosecution of the aforesaid United States and foreign patent applications and granting of Letters Patent or comparable rights thereon, and further to supply to the Government all facts and evidence known to them relating to the subject invention and the history and development thereof, to testify in all interferences, suits, and other legal proceedings, and generally to do everything rightful that the Government shall consider desirable for aiding in securing, maintaining, and enforcing proper patent protection for the subject invention and for the perfecting of title thereto in the Government.

4. Covenant that I (we) have the lawful right to assign the interest in the subject invention in the manner and form as herein expressed and that the interests herein conveyed are free from prior assignment, grant, mortgage, license, or other encumbrance whatsoever.



Signature of Inventor: [Handwritten Signature]  
Typed Name of Inventor: Barnaby J. Watten

Date: June 14, 2013

Office Address: U.S. Geological Survey  
Conte Anadromous Fish Research Laboratory  
One Migratory Way  
Turners Falls, MA 01376

State of Massachusetts )  
County of Franklin ) SS

On this 14<sup>th</sup> day of June, 2013, before me, a Notary Public in and for the State and County aforesaid, personally appeared Barnaby J. Watten, known to me to be the person whose name is subscribed to this instrument, who executed this instrument in my presence and acknowledged that he/she executed the same for the purposes therein contained.

(Seal)

[Handwritten Signature: Kerri M. Lynch]  
(Signature of Notary Public)

My Commission Expires: December 8, 2017

