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To the Director of the U.S. Patent and Trademark Office. Please record the attached documents or the new address(es) below

1. Name of conveying party(ies) RICHARD W SMITH
U.S. PTO 13/066855
Execution Date(s) 04/11/2011
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name USA as Represented by the Secretary of the Navy
Internal Address: Chief of Naval Research
Office of Counsel, OOCC
Street Address: Ballston Tower One
800 N. Quincy Street
City: Arlington
State: Virginia
Country: USA **Zip** 22217-5660
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):
Execution Date(s) 3-29-11
 Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s):
A Patent Application No (s)
Navy Case No 100,738
Additional numbers attached? Yes No

This document is being filed together with a new application.
B. Patent No.(s)

5. Name and address to whom correspondence concerning document should be mailed:
Name: JAMES T SHEPHERD
Internal Address: OFFICE OF COUNSEL, CODE CDL
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6. Total number of applications and patents involved: One
7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information
Deposit 05/10/2011 13066855 500033 13066855
Authorized User Name JAMES T. SHEPHERD

9. Signature: [Signature] **Signature** 4/4/2011 **Date**
Name of Person Signing JAMES T SHEPHERD
Total number of pages including cover sheet, attachments, and documents: 2

ASSIGNMENT

WHEREAS, I, RICHARD W. SMITH while employed by the Government of the United States, has invented certain new and useful improvements SIMULATING FLUID FLOW AT A MOVING BOUNDARY identified as Navy Case No. 100,738 and described in application for Letters Patent of the United States of America executed by me on 3-29-11; and

WHEREAS, the Government of the United States, represented by the Secretary of the Navy and hereinafter referred to as the Government, is desirous of acquiring an assignment of the invention disclosed in said application and other rights and benefits herein granted; and

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights; and

WHEREAS, as to foreign rights, it is the policy of the Government to obtain an option to exercise such rights;

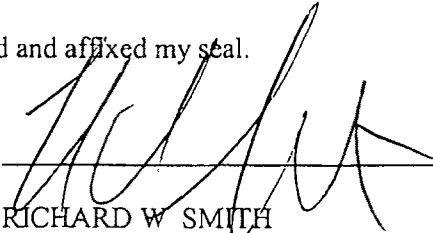
NOW, THEREFORE, in consideration of the premises and other good and valuable consideration the receipt of which is hereby acknowledged, I hereby assign and transfer to the Government the entire right, title and interest in and to said invention within the United States of America, its territories and possessions, and the entire right, title and interest in and to said application and any continuation, division, or substitution thereof, and such Letters Patent as may issue therefrom and any reissue or extensions thereof, said invention, application and Letters Patent to be held by the Government to the end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this assignment not been made.

I do hereby also grant unto the Government, the option to take the entire right, title and interest in the invention and all patent applications or other forms of protection thereon in all countries foreign to the United States in which the Government may file, or cause to be filed, applications for Letters Patent or other forms of protection, without payment of any consideration; provided, however, that I may elect to take foreign rights in the invention, or applications or other forms of protection thereon, if the Government is not pursuing international patent protection within eight months of the filing date of any application for United States Letters Patent covering the invention, or within eight months from the declassification of the invention, whichever is later, subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on said invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I hereby further agree to make, execute, and deliver to the Government, any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the application and of any continuation, division or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention as may be requested, provided that any expense arising through such efforts will be paid by the Government.

IN TESTIMONY WHEREOF, I have set my hand and affixed my seal.

3/29/2011
Date


RICHARD W SMITH