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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.

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1. Name of conveying party(ies)

HELMUT PORTMANN

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, OCCC

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) 10/12/05

- 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):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: NAVAL SURFACE WARFARE CENTER PANAMA CITY

Internal Address: OFFICE OF COUNSEL

Street Address: 110 VERNON AVE.

City: PANAMA CITY

State: FLORIDA Zip: 32407-7001

Phone Number: 850-234-4646

Fax Number: 850-235-5497

Email Address: JAMES.T.SHEPHERD@NAVY.MIL

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 by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 50-0833

Authorized User Name JAMES T. SHEPHERD

9. Signature:

James T. Shepherd
Signature

10/12/05
Date

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 2

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

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PATENT
REEL: 017139 FRAME: 0510

ASSIGNMENT

WHEREAS Helmut Portmann of Panama City Beach, Florida, while employed by the Government of the United States, have invented certain new and useful improvements in:

MINE CLEARING DEVICE INCORPORATING PNEUMATIC THRUST AND UNBIASED MOTION

identified as Navy Case No. 97,427 described in application for Letters Patent of the United States of America executed by us on October 12, 2005; 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, we 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 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 Letter Patent or other forms of protection, without payment of any consideration. This option may be exercised at any time within eight months from the filing date of any application for the United States Letters Patent covering the invention, or within eight months from the declassification of the invention, whichever is later, by the Government obtaining an assignment for foreign filing executed by one or more of the inventors. However, if one or more or all inventors declines or is unable for any reason to execute an assignment for foreign filing upon written request by the Government to do so, the Government shall be deemed to have exercised its option and shall be free to file. In the event the Government does not exercise its option as above described, all foreign rights not exercised under the option are left to us 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 sublicenses for use on 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 hands and affixed our seal.



HELMUT PORTMANN

Date 12 October 2005