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Anthony A. Ruffa	Internal Address: Naval Undersea Warfare Center.
Additional name(s) of conveying party(ies) attached? Yes X No	Division, Newport , Office of Counsel
3. Nature of conveyance/Execution Date(s):	Street Address: 1176 Howell Street
Execution Date(s) 5 January 2010	
Assignment Merger	
Security Agreement Change of Name	City: Newport
Joint Research Agreement	State: R.I.
Government Interest Assignment	Country: U.S. Zip: 02841
Executive Order 9424, Confirmatory License	Country: U.S. Zip: 02841
Other	Additional name(s) & address(es) attached? Yes 🔀 No
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)
Navy Case No. 95882	
12/683,687	
Additional numbers attached? Yes No	
5. Name and address to whom correspondence	6. Total number of applications and patents
concerning document should be mailed:	involved: 1
Name: Office of Counsel, Bldg 11	7. Total fee (37 CFR 1.21(h) & 3.41) \$_40.00
Internal Address: Naval Undersea Warfare Center	
Division, Newport	X Authorized to be charged to deposit account
Street Address: 1176 Howell Street	Enclosed
	None required (government interest not affecting title)
City: Newport	8. Payment Information
State: R.I. Zip: 02841	
Phone Number: 401-832-3653	Deposit Appayer Number 14 area
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9. Signature:	
Signature	Date
MICHAEL P. STANLEY	Total number of pages including cover 2
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Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or m Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1460, Alexandria, V.A. 22313-1460

> **PATENT REEL: 023759 FRAME: 0346**

This assignment is being signed after filing, the U.S. Patent Application Serial No. is\_\_\_\_\_\_

## **ASSIGNMENT**

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/We hereby assign and transfer to the Government my 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/We 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 on behalf of the Government and/or in furtherance of the foreign policies of the Government.

I/We 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/We have set my hand and affixed my seal.

ANTHONY A. RUFFA

PATENT REEL: 023759 FRAME: 0347

**RECORDED: 01/11/2010**