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FORM PTO-1595 (Rev. 6-93) OMB No. 0651-0011 (exp. 4/94)



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To the Honorable Commissionario Patents and Trademarks:	Please record the attached original documents or copy thereof.
1. Name of conveying party(ies): CHRISTOPHER R. KARABIN, BRUCE P. CHANDLER, JOSEPH E. PADGETT, JR., JAMES THEISEN, STEPHEN A. SMITH, JOSEPH M. PASTORIOUS, JOHN A. NIAL, CHRISTOPHER L. RICE. Additional name(s) of conveying party(ies) attached? Yes XX No	2. Name and address of receiving party(ies) The United States of America as Name: represented by the Secretary of the Navy Internal Address: Chief of Naval Research OFFICE OF COUNSEL (ATTEN: CODE OOCCIP)
3. Nature of conveyance:	
XX Assignment Merger	Street Address: BALLSTON TOWER ONE
☐ Security Agreement ☐ Change of Name	800 NORTH QUINCY STREET
☐ Other	City: ARLINGTON State: VA ZIP: 22217-5660
Execution Date: 3/18/04	Additional name(s) & address(es) attached? Yes No
4. Application number(s) or patent number(s):	
If this document is being filed together with a new applicatio	n, the execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
10/807574	
Additional numbers at	tached? D Yes 🛱 No
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Office of Counsel, Code OC4	7. Total fee (37 CFR 3.41)\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Internal Address: Naval Surface Warfare Center	□ Enclosed
Indian Head Division	Authorized to be charged to deposit account
Street Address: 101 Strauss Ave. Bldg. D-31	8. Deposit account number:
City: Indian Head State: MD ZIP: 20640	(Attach duplicate copy of this page if paying by deposit account)
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Statement and signature. To the best of my knowledge and belief, the foregoing information the original document.	ation is true and correct and any attached copy is a true copy, c

Mark Homer, Reg. No. 41,848 Name of Person Signing

Total number of pages including cover sheet, attachments, and docume RA

REEL: 015194 FRAME: 0877

ASSIGNMENT OF INVENTION

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, the Government desires to obtain the entire right, title and interest in and to the invention disclosed in said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, the Government desires an option to obtain the foreign rights in and to the invention;

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 United States of America as represented by the Secretary of the Navy 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 United States of America as represented by the Secretary of the Navy 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 us had this assignment not been made.

WE do hereby also grant to the Government, the option to take the entire right, title, and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention; such option to be exercised by a written notification to us within such eight months identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention; and that the rights in the foreign countries 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 the 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.

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 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, we have set our hand 3/15/04	Is and affixed our seals. Laudh'
Date	3/15/04	Signature Brund. Colle
Date	3/17/04	Signature Cod & Palett
Date	3/16/04	Signature
Date	3/16/04	Signature High a. Amit
Date	3/16/04	Signature Signature Story
Date	3/15/04	Signature Child Co. Mah
Date	3/16/04	Signature / L
Date		Signature

PATENT REEL: 015194 FRAME: 0878

ASSIGNMENT OF INVENTION

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, the Government desires to obtain the entire right, title and interest in and to the invention disclosed in said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, the Government desires an option to obtain the foreign rights in and to the invention;

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 United States of America as represented by the Secretary of the Navy 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 United States of America as represented by the Secretary of the Navy 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 us had this assignment not been made.

WE do hereby also grant to the Government, the option to take the entire right, title, and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention; such option to be exercised by a written notification to us within such eight months identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention; and that the rights in the foreign countries 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 the 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.

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 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, 3/15/04	we have set our hands and affixed our geals.
Date	3/15/04	Signature Bun Colli
Date	3/17/04	Signature Cod 5 Polyt 1
Date	3/16/04	Signature
Date	3/16/04	Signature Stephe a. Amit
Date	3/16/04	Signature Signature
Date	3/15/04	Signature Life Co. Lash
Date	3/16/04	Signature
Date	/ / /	Signature

PATENT
RECORDED: 04/09/2004 REEL: 015194 FRAME: 0879