

Form PTO-1595 (Rev. 03-09)
OMB No. 0651-0027 (exp. 03/31/2009)

U.S. DEPARTMENT OF COMMERCE
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99,965

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)

RAAFAT GUIRGUIS
CARL GOTZMER
STEVEN KIM

2. Name and address of receiving party(ies)

Name: The United States of America as Represented by the

Internal Address: Secretary of the Navy

Office of Counsel Attn: Code OOCIP

Street Address: Ballston Tower One

800 North Quincy Street

City: Arlington

State: Virginia

Country: United States

Zip: 22217-5660

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 4/16 and 4/20, 2010

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

A. Patent Application No.(s)

12/802,457

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Department of the Navy

Internal Address: Office of Counsel Building D-31

Street Address: 3824 Strauss Avenue Suite 103

City: Indian Head

State: Maryland

Zip 20659-5152

Phone Number: 301-744-5603

Fax Number: 301-744-4423

Email Address: fredric.zimmerman@navy.mil

6. Total number of applications and patents involved:

7. Total fee (37 CFR 1.21(h) & 3.41) \$540.00

☒ Authorized to be charged to deposit account

☐ Enclosed

☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 50-1114

Authorized User Name Fredric J. Zimmerman

9. Signature:

Fredric J. Zimmerman
Signature

6/28/10
Date

Fredric J. Zimmerman
Name of Person Signing

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

3

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

PATENT

REEL: 024606 FRAME: 0019

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ASSIGNMENT OF INVENTION

WHEREAS we, Raafat Guirguis of Fairfax, VA., Carl Gotzmer of Accokeek, MD., and Steven Kim of Crofton, MD., while employed by the Government of the United States of America, hereinafter referred to as the Government, have made an invention entitled HYDROREACTIVE ENERGETIC DEVICE AND METHOD identified as Navy Case No. 99,965 and described in application for Letters Patent of the United States of America as executed by us on 4/16, 4/20, 2010; 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, 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 hands and affixed our seals.

04/16/2010

Date

April 20, 2010

Date

4/16/10

Date



Signature: RAAFAT GUIRGUIS



Signature: CARL GOTZMER



Signature: STEVEN KIM