502786811 04/29/2014

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------|----------------|
| FELICE DIMASCIO | 01/07/2011 |
| DENNIS R. HARDY | 01/14/2011 |
| HEATHER D. WILLAUER | 01/14/2011 |
| M. KATHLEEN LEWIS | 01/10/2011 |
| FREDERICK WILLIAMS | 01/14/2011 |

RECEIVING PARTY DATA

| Name: | THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF THE NAVY |
|-------------------|---|
| Street Address: | 875 NORTH RANDOLPH STREET |
| Internal Address: | SUITE 1425 |
| City: | ARLINGTON |
| State/Country: | VIRGINIA |
| Postal Code: | 22203 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13838074 |

CORRESPONDENCE DATA

Fax Number: (202)404-7380

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

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Correspondent Name: AMANDA ALLISON

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| ATTORNEY DOCKET NUMBER: | 100160-US3 |
|-------------------------|------------------|
| NAME OF SUBMITTER: | AMANDA ALLISON |
| SIGNATURE: | /amanda allison/ |
| DATE SIGNED: | 04/29/2014 |

PATENT 502786811 REEL: 032775 FRAME: 0954

Total Attachments: 9 source=NC 100160-3 Assignment#page1.tif source=NC 100160-3 Assignment#page2.tif source=NC 100160-3 Assignment#page3.tif source=NC 100160-3 Assignment#page4.tif source=NC 100160-3 Assignment#page5.tif source=NC 100160-3 Assignment#page6.tif source=NC 100160-3 Assignment#page7.tif source=NC 100160-3 Assignment#page8.tif source=NC 100160-3 Assignment#page8.tif

PATENT REEL: 032775 FRAME: 0955

ASSIGNMENT BY INVENTORS (UNITED STATES PATENTS)

THIS ASSIGNMENT, made by Felice DiMascio; Dennis R Hardy; Heather D. Willauer; M. Kathleen Lewis; and Frederick Williams (hereinafter referred to as Assignors), residing at 1 Webster Lane, Rocky Hill, CT 06067; 44038 Flagstone Way, California, MD 20619; 8306 Holly Haven Lane, Fairfax Station, Virginia 22039; 493 Mid Valley Road, Lake Ariel, PA 18436; and 14925 West Ridge RD, Accokeek, Maryland 20607, respectively;

WHEREAS, Assignors, while employed by the Government of the United States, have invented certain new and useful improvements in Extraction of Carbon Dioxide and Hydrogen From Seawater and Hydrocarbon Production Therefrom, set forth in a Patent application for Letters Patent of the United States, filed 12/02/2010 as US patent application 12/958,963; and

WHEREAS, The Government of the United States of America, as represented by the Secretary of the Navy, a Federal Agency (hereinafter referred to as the Government), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

WHEREAS, by acquiring the Assignors' entire right, title, and interest in and to the invention the Government will be enabled to license the invention and share the income from the licensing with the Assignors as allowed by law;

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 Assignors' entire right, title, and interest therein, including the 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 sufficient consideration, the receipt of which is hereby acknowledged, Assignors have assigned, transferred and set over, and by these presents do assign, transfer and set over, unto the Government, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, the same to be held and enjoyed by the Government, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to the Government, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents,

except for any rights, titles and/or interests that have arisen to the Government under law or that have already been transferred to the Government, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with the Government, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to the Government, its successors, legal representatives and assigns, whenever counsel of the Government, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to

Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of the Government, its successors, legal representatives and assigns.

AND the Assignors do hereby also grant unto the Government, the option to take the Assignors' 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 this grant of an option to take foreign rights in the invention, or applications or other forms of protection thereon, shall have force and effect only as to such applications for which a decision to file in foreign countries is made within eight months of the filing date of any application for United States Letters Patent and/or any provisional application covering the invention, or within eight months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the option are left to Assignors 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 .

AND the Assignors 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.

AND Assignors hereby appoint all practitioners at Customer Number 26384, all of US Naval Research Laboratory, 4555 Overlook Ave, SW, Washington, DC 20375, jointly, and each of them severally, my attorneys at law/patent agent(s), with full power of substitution, delegation and revocation, to prosecute this application, to make alterations and amendments therein, and to transact all business in the U. S. Patent and Trademark Office connected therewith.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office any foreign patent office for recordation of this document:

US NAVAL RESEARCH LABORATORY

All practitioners at Customer Number 26384.

| Date: | Signature: | |
|-------|-----------------|--|
| | Felice DiMascio | |

Jan 07 11 10:35a Felice 8607219323 p.2

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US NAVAL RESEARCH LABORATORY

All practitioners at Customer Number 26384.

| Date: <u>07JAN 2011</u> | Signature | Felice Di Mascio | Seal |
|-------------------------|-----------|--------------------------|------|
| Date: | Signature | : Dennis R Hardy | Seal |
| Date: | Signature | : Heather D. Willauer | Seal |
| Date: | Signature | : M. Kathleen Lewis | Seal |
| Date: | Signature | : Frederick Williams | Seal |

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US NAVAL RESEARCH LABORATORY

All practitioners at Customer Number 26384.

| Date: | Signature: Felice DiMascio | Seal |
|------------------------|---------------------------------|------|
| Date: <u>/-/4-20//</u> | Signature: Dennis R Hardy | Seal |
| Date: | Signature: Heather D. Willauer | Seal |
| Date: | Signature: M. Kathleen Lewis | Seal |
| Date: | Signature: Frederick Williams | Seal |

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US NAVAL RESEARCH LABORATORY

All practitioners at Customer Number 26384.

| Date: | Signature: Felice DiMascio | Seal |
|----------------|-------------------------------|--------|
| Date: | Signature: Dennis R Hardy | Seal |
| Date: 11117011 | Signature: D. Willauer | Seal |
| Date: | Signature: M. Kathleen Lewis | Seal |
| Date: <u> </u> | Signature: Frederick Williams | ─ Scal |

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| Date: | Signature: ` Felice DiMascio | Seal |
|----------------|---|---------------|
| Date: | Signature: Dennis R Hardy | Seal |
| Date: | Signature: Heather D. Willauer | Seal |
| Date: <u> </u> | Signature: M. La Lloy lux M. Kathleen Lewis | 9 Seal |
| Date: | Signature:Frederick Williams | Seal |

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