

Docket No.: RAY-234J (10-0667)

FORM PTO-1595 (Modified) (Rev. 03-09)  
 OMB No. 0651-0027 (exp. 3/31/2009)  
 POBA/REV08

**RECORDATION FORM COVER SHEET**

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

## PATENTS ONLY

To the Director of the United States Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies):**  
 Fraser Smith  
 Steven C. Jacobsen

Additional names(s) of conveying party(ies)  Yes  No

**2. Name and address of receiving party(ies):**

Name: Raytheon Company  
 Address: 870 Winter Street

**3. Nature of conveyance/Execution Date(s):**  
 Execution Date(s): June 13, 2011; June 23, 2011

Assignment  Merger  
 Security Agreement  Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other

City: Waltham  
 State/Prov.: MA  
 Country: US ZIP: 02451

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

**4. Application or patent numbers(s):**  
 A. Patent Application No. (s)  
12/800,486

Additional numbers attached?  Yes  No

This document is being filed together with a new application.  
 B. Patent No.(s)

**5. Name and address to whom correspondence concerning document should be mailed:**  
 Name: Roy J. Coleman  
 Registration No.: 48,863  
 Address: Iandiorio Teska & Coleman  
255 Bear Hill Road  
 City: Waltham  
 State/Prov.: MA  
 Country: US ZIP: 02451  
 Phone Number: (781) 890-5678  
 Fax Number: (781) 890-1150  
 Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved:** one (1)


**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 09-0002  
 Authorized User Name Roy J. Coleman

**9. Signature:**  6/28/11  
 Signature Date  
Roy J. Coleman  
 Name of Person Signing

Total number of pages including cover sheet, attachments, and document: 5

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, VA 22313-1450

**PATENT**

CH \$40.00 090002 12800486

ASSIGNMENT

WHEREAS, we, the signatories hereto, have invented an improvement entitled VESSEL HULL ROBOT NAVIGATION SYSTEM (Raytheon Case No. 10-0667) and have executed an application for United States patent based thereon on the date set forth below;

WHEREAS, RAYTHEON COMPANY, of Lexington, Massachusetts 02421, U.S.A., a corporation duly organized and existing under and by virtue of the laws of the State of Delaware, U.S.A., is desirous of acquiring certain rights thereunder;

NOW, THEREFORE, for one dollar and other good and valuable consideration, receipt of all of which is hereby acknowledged, we have agreed to and do hereby sell, assign and transfer unto said corporation the entire right, title and interest, in and throughout the world, in and to said invention, said application and any and all patents (including extensions thereof) of any country, which have been or may be granted on said invention or any part thereof, or on said application or any divisional, continuing, substitute or reissue application based in whole thereon, or based upon said invention, and without limiting the generality of the foregoing, we also do hereby sell, assign and transfer unto said corporation all our rights under the International Convention and all other treaties of like purpose, in respect of said invention and application, and we authorize said corporation to apply for patents on said invention or any part thereof, in all countries, claiming the priority of the filing date of said application in the United States of America under the provisions of said international Convention or any such other treaty;

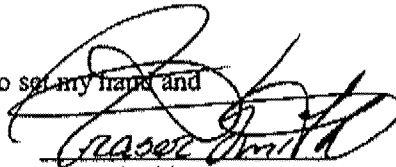
TO BE HELD AND ENJOYED by said corporation, its successors and assigns to the full ends of the respective terms for which said patents or any of them have been or may be granted, as fully and entirely as the same would have been held and enjoyed by me had no sale, assignment or transfer of said right, title or interest been made;

AND I do hereby authorize and request the Commissioner of Patents of the United States of America and the corresponding Office of each country foreign thereto to issue any and all United States and foreign patents which may be granted upon said applications or any of them in the United States and all other countries, or upon said invention or any part thereof, to said corporation, its successors or assigns.

AND we hereby agree for ourselves and for our heirs, executors and administrators, to execute without additional consideration any further lawful documents and any further assurances, and any applications for patents of any country, that might be deemed necessary by said corporation, its successors or assigns, fully to secure to said corporation its successors or assigns, its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them, all, however, at the expense of said corporation, its successors or assigns.

AND we hereby covenant for ourselves and our legal representatives, and agree with said corporation, its successors and assigns, that we have granted no right or license to make, use or sell said invention to anyone except said corporation, that prior to the execution of this our right, title and interest in said invention had not been otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

IN WITNESS WHEREOF, I, Fraser Smith have hereunto set my hand and affixed my seal this 13<sup>th</sup> day of JUNE, 2011.

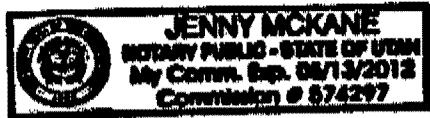
  
Fraser Smith

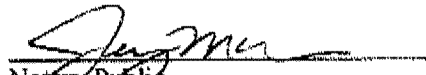
ACKNOWLEDGMENT

State of Utah )  
County of Salt Lake )

On this 13<sup>th</sup> day of June, 2011, before me, a Notary Public within this state, personally appeared the above-named Fraser Smith personally known by me to be the identified person named in and who executed the foregoing instrument, and subscribed the same in my presence, and acknowledged that he/she executed the same as his/her voluntary and free act and deed.

[Notary's seal here]



  
Notary Public  
My commission expires: 5/13/12

Raytheon Case No. 10-0667

**ASSIGNMENT**

WHEREAS, we, the signatories hereto, have invented an improvement entitled VESSEL HULL ROBOT NAVIGATION SYSTEM (Raytheon Case No. 10-0667) and have executed an application for United States patent based thereon on the date set forth below;

WHEREAS, RAYTHEON COMPANY, of Lexington, Massachusetts 02421, U.S.A., a corporation duly organized and existing under and by virtue of the laws of the State of Delaware, U.S.A., is desirous of acquiring certain rights thereunder;

NOW, THEREFORE, for one dollar and other good and valuable consideration, receipt of all of which is hereby acknowledged, we have agreed to and do hereby sell, assign and transfer unto said corporation the entire right, title and interest, in and throughout the world, in and to said invention, said application and any and all patents (including extensions thereof) of any country, which have been or may be granted on said invention or any part thereof, or on said application or any divisional, continuing, substitute or reissue application based in whole thereon, or based upon said invention, and without limiting the generality of the foregoing, we also do hereby sell, assign and transfer unto said corporation all our rights under the International Convention and all other treaties of like purpose, in respect of said invention and application, and we authorize said corporation to apply for patents on said invention or any part thereof, in all countries, claiming the priority of the filing date of said application in the United States of America under the provisions of said international Convention or any such other treaty;

TO BE HELD AND ENJOYED by said corporation, its successors and assigns to the full ends of the respective terms for which said patents or any of them have been or may be granted, as fully and entirely as the same would have been held and enjoyed by me had no sale, assignment or transfer of said right, title or interest been made;

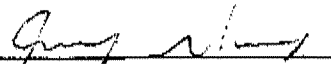
AND I do hereby authorize and request the Commissioner of Patents of the United States of America and the corresponding Office of each country foreign thereto to issue any and all United States and foreign patents which may be granted upon said applications or any of them in the United States and all other countries, or upon said invention or any part thereof, to said corporation, its successors or assigns.

AND we hereby agree for ourselves and for our heirs, executors and administrators, to execute without additional consideration any further lawful documents and any further assurances, and any applications for patents of any country, that might be deemed necessary by said corporation, its successors or assigns, fully to secure to said corporation its successors or assigns, its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them, all, however, at the expense of said corporation, its successors or assigns.

AND we hereby covenant for ourselves and our legal representatives, and agree with said corporation, its successors and assigns, that we have granted no right or license to make, use or sell said invention to anyone except said corporation, that prior to the execution of this our right, title and interest in said invention had not been otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

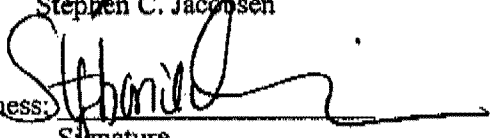
IN WITNESS WHEREOF, I, Stephen C. Jacobsen have hereunto set my hand and  
affixed my seal this 23 day of June, 2011.

  
Stephen C. Jacobsen

Witness:   
Signature

Print Name: JEREMY GUEBERITZ

Date: 6/23/11

Witness:   
Signature

Print Name: Stephanie Griffiths

Date: 6/23/11

RAY-234J  
Raytheon Case No. 10-0667  
KT/nle