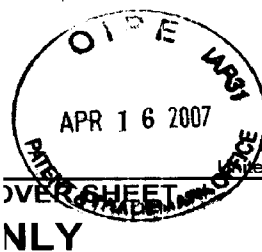


04-20-2007



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U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

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):**

Michael Shore (3/22/2007), Benjamin Dolgin  
(3/22/2007), and Steven Cotten (3/22/2007)

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

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

Execution Date(s): in parentheses after inventor name

☒ Assignment ☐ Merger ☐ Change of Name

☐ Security Agreement ☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other

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

Name: Raytheon UTD Inc.

Internal Address:

Street Address:

8350 Alban Rd., Suite 700

City: Springfield

State: Virginia

Country: United States of America Zip: 22150

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

**4. Application or patent number(s):**

A. Patent Application No.(s)

11/640,337

☐ 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: Mark J. Thronson  
DICKSTEIN SHAPIRO LLP

Internal Address: Atty. Dkt.: U3010.0017/P017

Street Address: 1825 Eye Street, NW

City: Washington

State: DC Zip: 20006-5403

Phone Number: (202) 420-4742

Fax Number: (202) 420-2201

Email Address: ThronsonM@dicksteinshapiro.com

**6. Total number of applications and patents involved:**

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 1002  
Expiration Date 01/11

b. Deposit Account Number  
Authorized User Name

**9. Signature:**

Signature

Mark J. Thronson - 33,082

Name of Person Signing

April 11, 2007

Date

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

6

# ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT**, by Michael Shore, Benjamin Dolgin, and Steven A. Cotten (hereinafter referred to as "Assignors"), residing at 6356 Crosswoods Drive, Falls Church, Virginia 22044, 7201 Burtonwood Drive, Alexandria, Virginia 22307, and 15743 Vista Drive, Dumfries, Virginia 22026, respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in POSITIONING SYSTEM AND METHOD, set forth in U.S. Patent Application No. 11/640,337, filed with the U.S. Patent and Trademark Office on December 18, 2006; and

**WHEREAS**, Raytheon UTD Inc. (hereinafter referred to as "Assignee"), having a place of business at 8350 Alban Road, Suite 700, Springfield, Virginia 22150, 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 therefor and thereon.

**NOW, THEREFORE**, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, 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 and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, including all rights of priority, the same to be held and enjoyed by Assignee, 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 sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, 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 Assignee under law or that have already been transferred to Assignee, 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 Assignee, 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 Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, 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 in any country, 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.

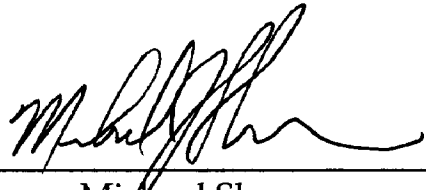
**AND** Assignors hereby request the Director of the U.S. Patent and Trademark Office to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

**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 for recordation of this document:

DICKSTEIN SHAPIRO LLP

All practitioners at Customer Number 24998

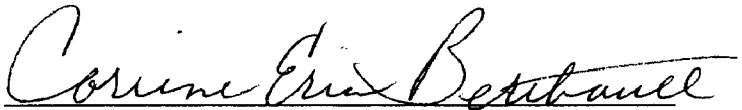
**AND** Assignors acknowledge an obligation of assignment of the invention to Assignee at the time the invention was made.

X   
Michael Shore

Date: X 3.22.07

United States of America )  
State of VIRGINIA ) ss.:  
County of STAFFORD )

On this 22<sup>ND</sup> day of MARCH, 2007, before me  
personally came Michael Shore, to me known to be the  
described in and who executed the foregoing instrument, and acknowledged  
of the same.

  
Notary Public

DSMDB-2186949v01

PATENT  
REEL: 019205 FRAME: 0910

03/22/07

X Benjamin Dolgin  
Benjamin Dolgin

Date: X Benjamin Dolgin

United States of America )  
State of VIRGINIA ) ss.:  
County of STAFFORD )

On this 22<sup>nd</sup> day of MARCH, 2007, before me  
personally came Benjamin Dolgin, to me known to be the  
described in and who executed the foregoing instrument, and acknowledged  
of the same.

Corinne E. Borchers  
Notary Public

X Steven A. Cotten  
Steven A. Cotten

Date: X 3/22/07

United States of America )  
State of VIRGINIA ) ss.:  
County of STAFFORD )

On this 22<sup>ND</sup> day of MARCH, 2007, before me  
personally came Steven A. Cotten, to me known to be the  
described in and who executed the foregoing instrument, and acknowledged  
of the same.

Caroline Erin Berthoud  
Notary Public

DSMDB-2186949v01

RECORDED: 04/16/2007

PATENT  
REEL: 019205 FRAME: 0912