

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Theodore N. Tahmisian, Jr.	07/29/2008
Charles A. Hall	07/29/2008
RECEIVING PARTY DATA	
Name:	Raytheon Company
Street Address:	870 Winter Street
City:	Waltham
State/Country:	MASSACHUSETTS
Postal Code:	02451-1449
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12431196
CORRESPONDENCE DATA	
Fax Number:	(781)401-9966
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	7814019988
Email:	mhw@dc-m.com
Correspondent Name:	Daly, Crowley, Mofford & Durkee, LLP
Address Line 1:	354A Turnpike Street, Suite 301A
Address Line 4:	Canton, MASSACHUSETTS 02021-2714
ATTORNEY DOCKET NUMBER:	RTN-444AUS
NAME OF SUBMITTER:	Christopher S. Daly
<p>Total Attachments: 4</p> <p>source=PTO_ASSIGNMENT#page1.tif</p> <p>source=PTO_ASSIGNMENT#page2.tif</p> <p>source=PTO_ASSIGNMENT#page3.tif</p>	

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PATENT
REEL: 022605 FRAME: 0570

ASSIGNMENT

Whereas we, the undersigned, Theodore N. Tahmisian, Jr. and Charles A. Hall, hereby have made certain inventions or discoveries (or both) set forth in a Provisional patent application of the United States of America entitled SMALL APERTURE INTERROGATOR ANTENNA SYSTEM EMPLOYING SUM DIFFERENCE AZIMUTH DISCRIMINATION TECHNIQUES, identified as Attorney Docket No. RTN-444PUSP and Client Case No. 07E376/US/RRL, and filed on April 29, 2008, and assigned Application No. 61/048,760. In the event that the filing date and/or Application No. are not entered above or are incorrect at the time we executed this document, and if such information is deemed necessary, we hereby authorize and request our attorneys at DALY, CROWLEY, MOFFORD & DURKEE, LLP, 354A Turnpike Street, Suite 301A, Canton, MA 02021-2714, to insert above the filing date and/or Application No. of said application.

Whereas, RAYTHEON COMPANY, a Delaware Corporation having a place of business at 870 Winter Street, Waltham, MA 02451-1449, and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits and privileges hereinafter recited;

Now, therefore, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservation:

1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said inventions and discoveries, said United States Provisional patent application, any and all other patent applications on said inventions and discoveries in whatsoever countries, including all utility, divisional, renewal, substitute, continuation, reissue and Convention applications based in whole or in part upon said inventions or discoveries, said United States Provisional patent application or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in my name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to transfer said United States Provisional application or to issue or transfer any Letters Patent to Assignee based in whole or in part upon said United States Provisional application, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

4. Warrant that I have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same to Assignee without encumbrance;

5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me, my heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs, legal representatives or assigns which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

PATENT
U.S. Pat. Appl. No.: 61/048,760
Filed On: April 29, 2008

In testimony of which we have each executed this Assignment as an instrument on the date indicated next to our name(s).

Dated: July 29, 2008

Theodore N. Tahmisian, Jr.
Theodore N. Tahmisian, Jr.

On this 29th day of July, 2008, before me appeared Theodore N. Tahmisian, Jr., to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.

Gregory S. White
First Witness Signature

Gregory S. White
First Witness Printed Name

On this 29th day of July, 2008, before me appeared Theodore N. Tahmisian, Jr., to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.

Carl S. Eby
Second Witness Signature

CARL S. EBY
Second Witness Printed Name

PATENT
U.S. Pat. Appl. No.: 61/048,760
Filed On: April 29, 2008

Dated: 29 July 2008

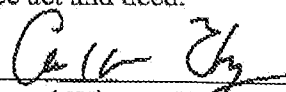

Charles A. Hall

On this 29th day of July, 2008, before me appeared Charles A. Hall, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.


First Witness Signature

Gregory S. White
First Witness Printed Name

On this 29th day of July, 2008, before me appeared Charles A. Hall, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.


Second Witness Signature

CARL S. EBY
Second Witness Printed Name

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