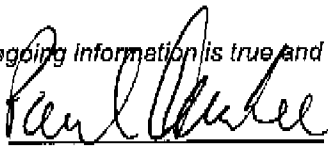


Atty Dkt No.: RTN-255PUS

Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005)		<b>RECORDATION FORM COVER SHEET</b> <b>PATENTS ONLY</b>		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office	
Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼ ▼ ▼ ▼					
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
<b>1. Name of conveying party(ies):</b> Giles D. Jones Quang K. Ha Lee L. Ourn Saman Jannati Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			<b>2. Name and address of receiving party(ies)</b> Name: <u>Raytheon Company</u> Internal Address: _____ _____ _____ Street Address: <u>870 Winter Street</u> _____ _____ City: <u>Waltham</u> State: <u>MA</u> Zip: <u>02451</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<b>3. Nature of conveyance:</b> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ 12-6-05; 12-6-05; 12-6-05; Execution Date: <u>12-6-05; 11-7-05; 11-14-05; 12-6-05</u>					
<b>4. Application number(s) or patent number(s):</b> If this document is being filed together with a new application, the execution date of the application is: _____ A. Patent Application No.(s) <u>11/182,495</u> B. Patent No.(s) _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b> Name: <u>Daly, Crowley, Mofford &amp; Durkee, LLP</u> Internal Address: _____ _____ _____ Street Address: <u>354A Turnpike Street, Suite 301A</u> _____ _____ City: <u>Canton</u> State: <u>MA</u> Zip: <u>02021-2714</u>			<b>6. Total number of applications and patents involved:</b> <u>1</u> <b>7. Total fee (37 CFR 3.41).....\$40.00</b> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account <b>8. Deposit account number:</b> <u>500845</u> (Attach duplicate copy of this page if paying by deposit account)		
<b>DO NOT USE THIS SPACE</b>					
<b>9. Statement and signature.</b> <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;"> <u>Paul D. Durkee</u>      41,003            Name of Person Signing         </div> <div style="text-align: center;">             Signature         </div> <div style="text-align: center;"> <u>12 Dec 05</u>            Date         </div> </div>					
Total number of pages including cover sheet, attachments, and documents: <u>10</u>					

Mail documents to be recorded with required cover sheet information to:

MS Assignment Recordation Services, Director of the U.S. Patent and Trademark Office,  
 P. O. Box 1450, Alexandria, VA 22313-1450

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**PATENT**  
**REEL: 017113 FRAME: 0741**

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## CONTINUATION SHEET

Atty Dkt No.: RTN-255PUS

Form PTO-1595 - Continuation  
(Rev. 03/01)RECORDATION FORM COVER SHEET  
**PATENTS ONLY**U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

OMB No. 0651-0027 (exp. 5/31/2002)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of additional conveying party(ies):

Glenn D. Taylor  
David L. MacArthur  
Qingce BianAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 2. Name and address of additional receiving party(ies)

Name: \_\_\_\_\_

Internal Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_Street Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Name: \_\_\_\_\_

Internal Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_Street Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

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

## 4. Additional application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

B. Patent No.(s)

Additional number(s) or patent number(s)? ☐ Yes ☒ No

Main documents to be recorded with required cover sheet information to:

MS Assignment Recordation Services, Director of the U.S. Patent and Trademark Office,  
P. O. Box 1450, Alexandria, VA 22313-1450

## PATENT

## ASSIGNMENT

Whereas we, the undersigned, Giles D. Jones, Quang K. Ha, Lee L. Ourn, Saman Jannati, Glenn D. Taylor, David L. MacArthur, and Qingce Bian, hereby have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled METHODS AND APPARATUS TO PROVIDE TRAINING AGAINST IMPROVISED EXPLOSIVE DEVICES, identified as Attorney Docket No. RTN-255PUS and Client Case No. 04E178 which application was executed on 10/10/05, 10/11/05, 10/10/05, 10/11/05, 10/11/05, 10/11/05, 10/10/05, and filed on July 15, 2005 and Assigned Application No. 11/182,495. In the event that the execution date, filing date and/or Application No. are not entered above 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 execution date, 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, Massachusetts 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 application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, reissue, re-examination and Convention applications based in whole or in part upon said inventions or discoveries, 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 and any provisional applications from which priority is claimed in 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 issue or transfer all said Letters Patent to Assignee, 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,

PATENT  
Application No.: 11,182,495  
Filed On: July 15, 2005  
Attorney Docket No.: RTN-255PUS

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.

In testimony of which we have each executed this Assignment on the date indicated next to each of our respective names.

State or Commonwealth of C.A.

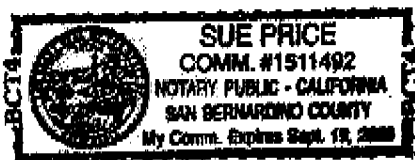
County SAN BERNARDINO

Dated 12-16-05

Giles D. Jones  
Giles D. Jones

On this 16 day of DECEMBER, 2005, before me appeared GILES D. JONES, to me known and known to me as the person described in and who executed the foregoing instrument, and he/she acknowledged the same to be his/her free act and deed.

[Signature]  
Notary Public



PATENT

Application No.: 11,182,495

Filed On: July 15, 2005

Attorney Docket No.: RTN-255PUS

State or Commonwealth of CA.County San BernardinoDated 12/06/05Quang K. Ha  
Quang K. Ha

On this 10 day of December 2005, before me appeared Quang K. Ha, to me known and known to me as the person described in and who executed the foregoing instrument, and he/she acknowledged the same to be his/her free act and deed.

[Signature]  
Notary Public

PATENT

REEL: 017113 FRAME: 0745

PATENT

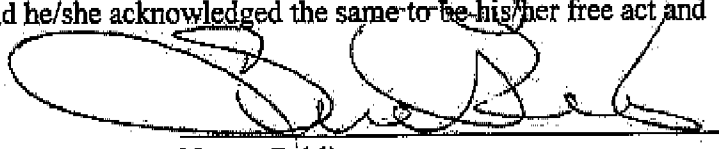
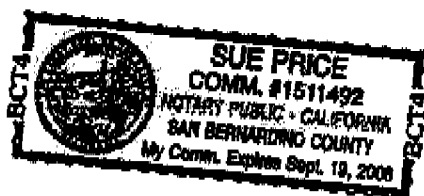
Application No.: 11,182,495

Filed On: July 15, 2005

Attorney Docket No.: RTN-255PUS

State or Commonwealth of CALIF.County SAN BERNARDINODated 12/06/2005  
Saman Jannati

On this 6 day of DECEMBER, 2005, before me appeared Saman Jannati  
\_\_\_\_\_, to me known and known to me as the person described in and who  
executed the foregoing instrument, and he/she acknowledged the same to be his/her free act and  
deed.

  
Notary Public

PATENT

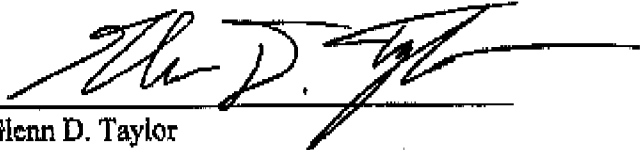
REEL: 017113 FRAME: 0746

PATENT


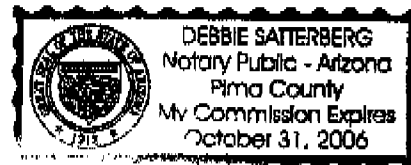
Application No.: 11,182,495

Filed On: July 15, 2005

Attorney Docket No.: RTN-255PUS

State or Commonwealth of ArizonaCounty PimaDated 11/7/05  
Glenn D. Taylor

On this 7 day of Nov, 2005, before me appeared Glenn Taylor, to me known and known to me as the person described in and who executed the foregoing instrument, and he/she acknowledged the same to be his/her free act and deed.

  
Notary Public

PATENT

REEL: 017113 FRAME: 0747

PATENT

Application No.: 11,182,495

Filed On: July 15, 2005

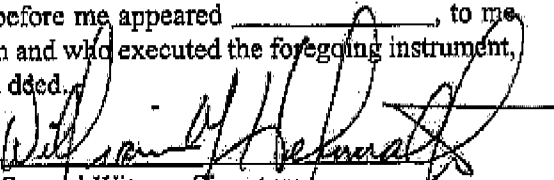
Attorney Docket No.: RTN-255PUS

Dated: 14 November 2005  
David L. McArthur

On this 14<sup>th</sup> day of November, 2005, before me appeared David McArthur 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 SignatureThomas W. Mohr  
First Witness Printed Name

On this 14<sup>th</sup> day of November, 2005, before me appeared \_\_\_\_\_, 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 SignatureWilliam M. Helmerath  
Second Witness Printed Name

PATENT

REEL: 017113 FRAME: 0748



PATENT  
Application No.: 11,182,495  
Filed On: July 15, 2005  
Attorney Docket No.: RTN-255PUS

State or Commonwealth of CA

County SAN BERNARDINO

Dated 12/6/05

  
Qingce Bian

On this 6 day of DECEMBER, 2005, before me appeared QINGCE BIAN  
to me known and known to me as the person described in and who  
executed the foregoing instrument, and he/she acknowledged the same to be his/her free act and  
deed.

  
Notary Public

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PATENT


Application No.: 11,182,495

Filed On: July 15, 2005

Attorney Docket No.: RTN-255PUS

State or Commonwealth of CA.  
County SAN BERNARDINODated 12/06/05  
\_\_\_\_\_  
Lee L. Ourn

On this 6 day of DECEMBER, 2005, before me appeared LEE L. OURN  
\_\_\_\_\_, to me known and known to me as the person described in and who  
executed the foregoing instrument, and he/she acknowledged the same to be his/her free act and  
deed.

  
\_\_\_\_\_  
Notary Public

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