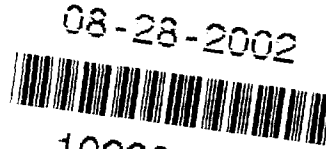


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Our Ref.: 124-149

Commissioner of Patents and Trademarks  
Box Assignment, Washington, D.C. 20231

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

<p>1. Name of conveying party(ies): The Secretary of State for Defence <i>8/22/02</i></p> <p>Additional name/s of conveying party/ies attached? <input type="checkbox"/></p> <p>3. Nature of conveyance:  <input checked="" type="checkbox"/> Assignment      <input type="checkbox"/> Merger  <input type="checkbox"/> Security Assignment      <input type="checkbox"/> Change of Name  <input type="checkbox"/> Other _____</p> <p>Execution Date: <u>August 14, 2002</u></p>	<p>2. Name and address of receiving party(ies): Name: QINETIQ LIMITED Internal Address: Street Address: Cody Technology Park, Ively Road  City: Farnborough, Hampshire State/Country: United Kingdom Zip: GU14 0LX</p> <p>Additional name/s &amp; address/es attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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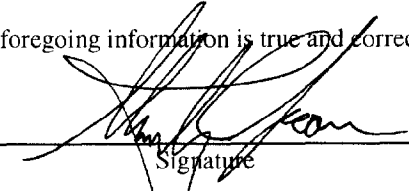
4. Application number(s) or patent number(s):  
If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

<p>A. Patent Application No(s). (1) 07/466,712 (2) _____ (3) _____</p>	<p>B. Patent No(s). (1) _____ (2) _____ (3) _____</p> <p>Additional numbers attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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<p>5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Stanley C. Spooner</u> Internal Address: _____ Street Address: <u>Nixon &amp; Vanderhye P.C.</u> <u>1100 North Glebe Road</u> <u>8<sup>th</sup> Floor</u> City: <u>Arlington</u> State: <u>VA</u> Zip: <u>22201</u></p>	<p>6. Total number of applications &amp; patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$ <u>40.00</u>  <input checked="" type="checkbox"/> Enclosed  <input type="checkbox"/> Authorized to be charged to deposit account #14-1140</p> <p>8. The Commissioner is hereby authorized to charge any deficiency, or credit any overpayment, in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our <b>Account No. 14-1140.</b></p>
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**DO NOT USE THIS SPACE**

9. Statements and signature.  
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.

<p><u>Stanley C. Spooner</u> Name of Person Signing Reg. No. 27,393</p>	 Signature	<p><u>August 22, 2002</u> Date</p>
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Total number of pages including original cover sheet, attachments, and document: [3]

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**ASSIGNMENT**

WHEREAS, the Secretary of State for Defence (hereinafter ASSIGNOR), an agency of the British government doing business at Whitehall, London SW1A 2HB and having been assigned all right, title and interest in United States Patent Application Serial Number 07/466,712 entitled HOLE BORING CHARGE ASSEMBLY filed on January 9, 1990 in an assignment from the inventors recorded on March 16, 1990 at Reel 5266, Frame 0515;

WHEREAS, ASSIGNOR hereby confirms that ASSIGNOR has the full right to convey all rights, as herein expressed, to the Patent application and the invention embodied therein;

AND WHEREAS, Qinetiq Group plc, (hereinafter ASSIGNEE), a corporation duly organized and existing under the laws of the United Kingdom and doing business at Cody Technology Park, A4 Bldg Room G016, Ively Road Farnborough, Hampshire GU14 0LX, United Kingdom, is desirous of acquiring all interest therein.

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the ASSIGNOR by these presents hereby sells, assigns, and transfers unto the ASSIGNEE, its successors, assigns, and legal representatives, the full and exclusive right to the invention in the United States and all foreign countries, as described in the aforesaid Patent application, together with the right to recover past damages and the right

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PATENT  
REEL: 013220 FRAME: 0407

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of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and hereby authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent resulting from said Patent application to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives.

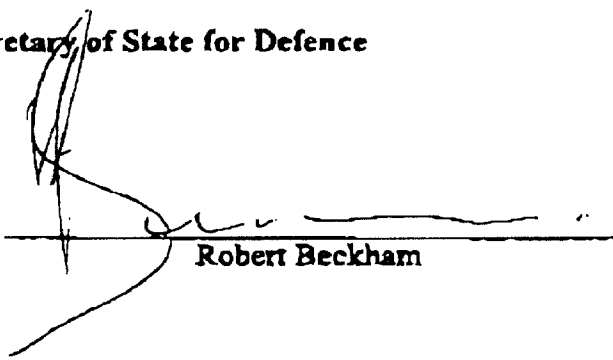
And, ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention; and to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred and for maintaining any resulting patent concerning said invention.

I am authorized to execute this ASSIGNMENT on behalf of ASSIGNOR.

Executed this 14 day of AUGUST, 2002.

[SEAL]

Secretary of State for Defence

By:   
Robert Beckham