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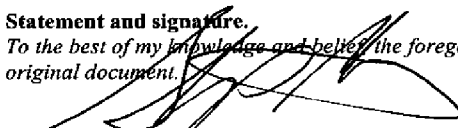
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<p>1. A. Name of conveying parties:</p> <p>[1] Mark Edward MCNIE [2] Keith Loder LEWIS [3] Andrew Maxwell SCOTT [4] Christopher William SLINGER [5] Kevin Michael BRUNSON [6] Gilbert William SMITH</p> <p>B. Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. A. Name and address of receiving party:</p> <p style="text-align: center;">QINETIQ LIMITED 85 BUCKINGHAM GATE LONDON SW1E 6PD UNITED KINGDOM</p> <p>B. Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. A. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>B. Execution Date: <u>[1] June 20, 2008;</u> <u>[2-4 & 6] July 2, 2008; [5] June 23, 2008</u></p>	
<p>4. A. Patent Application No. <u>12/278,500</u></p> <p style="text-align: center;">Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>C. Title of Application: <u>OPTICAL MODULATOR</u></p>	<p>B. Patent No.(s)</p>
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>James A. Oliff</u></p> <p>Address: OLIFF & BERRIDGE, PLC P.O. Box 320850 Alexandria, VA 22320-4850 Phone Number: 703-836-6400 Fax Number: 703-836-2787</p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of <u>\$40.00</u>.</p> <p>8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.</p>
<p>9. Statement and signature. <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></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;">  _____ James A. Oliff, Registration No. 27,075 Stephen P. Catlin, Registration No. 36,101 </div> <div style="width: 35%; text-align: right;"> Date: <u>August 6, 2008</u> </div> </div>	

CH \$40.00 150461 12278500

IP/P7474/USW

DEED OF ASSIGNMENT OF PATENT APPLICATION

BY AND BETWEEN

(Inventors) **Mark Edward MCNIE, Keith Loder LEWIS, Andrew Maxwell SCOTT, Christopher William SLINGER, Kevin Michael BRUNSON, Gilbert William SMITH**
and
(Assignee) **QINETIQ LIMITED**
(Address) **Company No. 3798233, whose Registered Office is at 85 Buckingham Gate, London SW1E 6PD United Kingdom (hereinafter referred to as "the Assignee")**

THIS DEED NOW WITNESSES

In accordance with their contract(s) of employment, and to the extent that it may be required to perfect the Assignee's ownership of the invention under the laws of any territory of the world, the undersigned hereby assign(s) to the Assignee the undersigned's entire right, title, and interest throughout the world – including in particular for the United States, its territories, dependencies, and possessions – in the invention identified in the Assignee's records as:

Optical Modulator(Case No. **P7474/USW**)

and in all applications for patents therefor and in all patents which may be granted therefor, for which the undersigned has (have) executed on even date herewith an application for a patent in the United States of America or an International application for a patent designating the United States of America, or if not on even date, then has executed on _____ or has already filed in _____
(Application Serial No. **US/** _____ or **PCT/GB2007/000414** filed on **6th February 2007**)

The undersigned acknowledge(s) an obligation of assignment of this invention to the Assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

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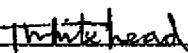
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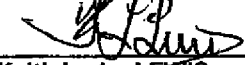
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United States of America**

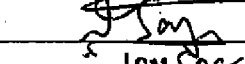
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EXECUTED AS A DEED by the undersigned on the date(s) opposite the undersigned signature(s).

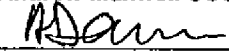
Signature of Inventor  Date 20/06/08
Mark Edward MCNIE

Witnessed by  Date 20/06/08
Tom Whitehead


Signature of Inventor  Date 2/7/08
Keith Loder LEWIS

Witnessed by  Date 2nd July 08
Ian Sage

Signature of Inventor  Date 02/07/08
Andrew Maxwell SCOTT

Witnessed by  Date 02/07/08

Signature of Inventor  Date 2 July 2008
Christopher William SLINGER

Witnessed by  Date 02/07/2008

Signature of Inventor  Date 23/06/08
Kevin Michael BRUNSON

Witnessed by  Date 23/06/08
J. O. K. R. T.

Signature of Inventor  Date 2/7/08
Gilbert William SMITH

Witnessed by  Date 2/7/08
D. ORCHARD