

RECORDATION FORM COVER SHEET

05-19-2000

Our Ref.: 124-632

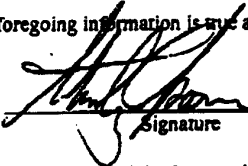
MRD 3.19.98

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



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

<p>1. Name of conveying party(ies): Harvey Rutt Paul Manning Paul Donohue</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>January 9 &amp; February 2, 1998</u></p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: <u>The Secretary of State of Defence</u> Internal Address: Street Address: <u>Defence Research Agency.</u> <u>Ively Road, Farnborough</u></p> <p>City: <u>Hampshire</u> State/Country: <u>Great Britain</u> Zip: <u>GU14 0LX</u></p> <p>Additional name/s &amp; address/es attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>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: <u>March 19, 1998</u></p> <p>A. Patent Application No(s): (1) (To Be Assigned) (2) <u>09-043418</u> (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>	
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Stanley C. Spooner</u></p> <p>Internal Address:</p> <p>Street Address: <u>Nixon &amp; Vanderhye P.C.</u> <u>1100 North Glebe Road</u> <u>8<sup>th</sup> Floor</u></p> <p>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 E</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 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 Account No. 14-1140.</p>
<p>DO NOT USE THIS SPACE</p>	
<p>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> <p><u>Stanley C. Spooner</u>  <u>March 19, 1998</u> Name of Person Signing Signature Date Reg. No. 27,393</p> <p>Total number of pages including original cover sheet, attachments, and document: [4]</p>	

PATENT  
REEL: 010638 FRAME: 0453

**ASSIGNMENT OF PATENT APPLICATION (US NATIONAL PHASE OF PCT)**

- (1) Harvey Nicholas RUTT
- (2) Paul Antony MANNING
- (Inventors) (3) Paul Peter DONOHUE
- (4) \_\_\_\_\_
- (5) \_\_\_\_\_
- (6) \_\_\_\_\_

In consideration of payment for my employment and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign; hereby does assign, transfer and set over to

(Assignee) (8) The Secretary of State for Defence

(Address) (7) Defence Research Agency, Ivelly Road, Farnborough, Hampshire, GU14 0LX

(hereinafter designated as the Assignee), the entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of

(Other (8) \_\_\_\_\_ in the invention, and all applications for patent Countries) and any Letters Patent which may be granted therefor, known as

(Title) (9) INFRARED RADIATION MODULATING DEVICE  
(Case No: IPD/P2291/JSW )

for which the unassigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed

(10) on \_\_\_\_\_ or has already filed in

(11) U.S. appln. Serial Number \_\_\_\_\_ filed on \_\_\_\_\_

(12) The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

**PATENT**  
**REEL: 010638 FRAME: 0454**

- 1) The undersigned agree(s) to execute all papers and document necessary in connection with the application or any interference which may be declared and any continuing or divisional application thereof and also to execute separate assignments in connection with 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.
- 2) 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.
- 3) The undersigned hereby authorize(s) and request(s) the 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 hereby assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.
- 4) The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. 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 Office for record of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date \_\_\_\_\_ Signature of Inventor (1) \_\_\_\_\_  
H N Rutt

Date \_\_\_\_\_ Witness (1) \_\_\_\_\_

Date 9-1-98 Signature of Inventor (2) *P.A. Manning*  
P A Manning

Date 9.1.98. Witness (2) *D. Cochran*

Date 9/1/98 Signature of Inventor (3) *P.P. Donohue*  
P P Donohue

Date 9/1/98 Witness (3) *P.N. Roberts*

Date | \_\_\_\_\_ Signature of Inventor (4) \_\_\_\_\_

Date \_\_\_\_\_ Witness (4) \_\_\_\_\_

PATENT  
REEL: 010638 FRAME: 0455

- 1) The undersigned agree(s) to execute all papers and document necessary in connection with the application or any interference which may be declared and any continuing or divisional application thereof and also to execute separate assignments in connection with 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.
- 2) 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.
- 3) The undersigned hereby authorize(s) and request(s) the 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 hereby assigned, and that he has ( they have) not executed and will not execute, any agreement in conflict herewith.
- 4) The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. 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 Office for record of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date 2/2/98 -Signature of Inventor (1) *[Signature]*  
H N Rutt

Date 2/2/98 Witness (1) *[Signature]*

Date \_\_\_\_\_ Signature of Inventor (2) \_\_\_\_\_  
P A Manning

Date \_\_\_\_\_ Witness (2) \_\_\_\_\_

Date \_\_\_\_\_ Signature of Inventor (3) \_\_\_\_\_  
P P Donohue

Date \_\_\_\_\_ Witness (3) \_\_\_\_\_

Date \_\_\_\_\_ Signature of Inventor (4) \_\_\_\_\_

Date \_\_\_\_\_ Witness (4) \_\_\_\_\_

RECORDED: 03/19/1998

PATENT  
REEL: 010638 FRAME: 0456