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Our Ref.: 540-546

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Commissioner of Patents

P.O. Box 1450

Alexandria, VA 22313-1450

103051416

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

1. Name of conveying party(ies):

Lee Douglas MILLER
Thomas John RICHARDS
James Stephen MULLEY

2. Name and address of receiving party(ies):

Name: MBDA UK LIMITED

Internal Address:

Street Address: Six Hills Way

Additional name/s of conveying party/ies attached? ☐

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Assignment ☐ Change of Name
☐ Other

City: Stevenage, Hertfordshire

State/Country: GB

Zip: SG1 2DA

Execution Date: November 6, 10, and 4, 2003

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

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:

November 6, 10, and 4, 2003

A. Patent Application No(s).

(1)
(2)
(3)

B. Patent No(s).

(1)
(2)
(3)

Additional numbers attached ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Stanley C. Spooner

Internal Address:

Street Address: Nixon & Vanderhye P.C.

1100 North Glebe Road

8th Floor

City: Arlington State: VA Zip: 22201

6. Total number of applications & patents involved: 1

7. Total fee (37 CFR 3.41) (8021) \$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account #14-1140

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.

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.

Stanley C. Spooner

Name of Person Signing

Reg. No. 27,393

Signature

January 28, 2005

Date

Total number of pages including original cover sheet, attachments, and document: [7]

ASSIGNMENT OF PATENT APPLICATION

MILLER Lee Douglas
RICHARDS Thomas John
MULLEY James Stephen

(Inventors)

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee)
(Address)

MBDA UK Limited
(of Six Hills Way, Stevenage, Hertfordshire, SG1 2DA United Kingdom
(hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of

(Other
Countries)
(Title)

(in the invention, and all application for patent and any Letters Patent which may be granted therefore, known as
AN OPTICAL FIBRE (Case No. -)
for which the undersigned 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 (on or has already filed in
(U.S. appln. Serial No. , filed on).
The undersigned acknowledges an obligation of assignment of this invention to said 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 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.

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 recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

XA1669USAss

PATENT
REEL: 016805 FRAME: 0981

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

Date 6-11-2003 Signature of inventor (
MILLER, Lee Douglas

Date _____ Signature of inventor (_____
RICHARDS, Thomas John

Date _____ Signature of inventor (_____
MULLEY, James Stephen

Date _____ Signature of inventor (_____

Date _____ Signature of inventor (_____

Date _____ Signature of inventor (_____

Date _____ Signature of inventor (_____

Date _____ Signature of inventor (_____

Date _____ Signature of inventor (_____

Witnessed by: M. R. Jennings Date 6-11-03

Witnessed by: C. Greenway Date 6-11-03

Witnessed by: _____ Date _____

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Date _____ Signature of inventor (_____
MILLER, Lee Douglas

Date 10/11/2003 Signature of inventor (_____
RICHARDS, Thomas John

Date _____ Signature of inventor (_____
MULLEY, James Stephen

Date _____ Signature of inventor (_____

Date _____ Signature of inventor (_____

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MILLER, Lee Douglas

Date _____ Signature of inventor (_____
RICHARDS, Thomas John

Date 04/11/03 Signature of inventor (
MULLEY, James Stephen

Date _____ Signature of inventor (_____

Date _____ Signature of inventor (_____

Date _____ Signature of inventor (_____

Date _____ Signature of inventor (_____

Date _____ Signature of inventor (_____

Date _____ Signature of inventor (_____

Witnessed by:



Date

4/11/03

Witnessed by:

Date

Witnessed by:

Date