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Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

John Paul DRAKE and
Matthew Peter SHAW

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date December 4, 1998

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

Name: Bookham Technology Limited

Internal Address: _____

Street Address: 90 Milton Park, Abingdon,

Oxfordshire OX14 4RY, United Kingdom

City: _____

State: _____ ZIP: _____

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: December 4, 1998

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: John W. McIlvaine

Internal Address: Webb Ziesenheim Bruening

Logsdon, Orkin & Hanson, P.C.

Street Address: 700 Koppers Building

436 Seventh Avenue

City: Pittsburgh State: PA ZIP: 15219-1818

6. Total number of applications and
patents involved: 1

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

Enclosed

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8. Deposit account number:

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9. Statement and signature.

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John W. McIlvaine

Name of Person Signing

Reg. No. 34,219

[Signature]
Signature

January 13, 1999

Date

Total number of pages including cover sheet, attachments and document

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01 FC:581

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PATENT
REEL: 9702 FRAME: 0939

For: U.S. and/or Foreign Rights
For: U.S. Application or
 U.S. Provisional Application
For: U.S. Patent
For: PCT Application
By: Multiple Inventors

ASSIGNMENT OF INVENTION (MULTIPLE INVENTORS)

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS (Inventors):

John Paul Drake
(type or print name of inventors)

47 Rockfel Road, Lambourn, Berkshire RG17 8NG.
Address Nationality Great Britain
Great Britain

Matthew Peter Shaw

44 Wytham Street, Oxford OX1 4TS, Great Britain
Nationality Great Britain

hereby sells, assigns and transfers to

ASSIGNEE:

Bookham Technology Limited 90 Milton Park, Abingdon, Oxfordshire OX14 4RY
(type or print name of ASSIGNEE) Address Great Britain
British
Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- the entire right, title and interest
 an undivided _____ percent (_____ %) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

and in all foreign countries, including all rights to claim priority
in and to any and all improvements which are disclosed in the invention entitled:

Manufacture Of A Silicon Waveguide Structure

(check and complete (a), (b), (c), (d), (e), (f), or (g))

and which is found in

- (a) U.S. patent application executed on even date herewith
(b) U.S. patent application executed on _____
(c) U.S. provisional application naming the above inventor(s) for the above-entitled invention
 Express mail label no.: EL08724218US
Mailed: January 13, 1999
 To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.
- (d) U.S. application no. _____ / _____ filed on _____
(e) International application no. PCT _____ / _____ / _____
filed on _____
(f) U.S. patent no. _____ issued _____
 A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(check (g), if foreign application(s) is also being assigned)

(g) and any legal equivalent thereof in a foreign country, including the right to claim priority

(Assignment of Invention—Multiple Inventors [16-12]—page 2 of 3)

PATENT

REEL: 9702 FRAME: 0941

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal this 6, 1998
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

John Paul Drake
(type name of inventor)

Matthew Peter Shaw

[Signature]
Signature of INVENTOR

[Signature]

Notarization or Legalization Page Added.

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

(Assignment of invention—Multiple Inventors [18-32]—page 3 of 3)