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05-24-2002

OMB No. 0651-0011



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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark OfficeTo the Honorable Commissioner o
thereof.

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d the attached original documents or copy

1. Name of conveying party(ies)
Philip Arthur Mullins
Jill Barbara Mullins
Robert Turner

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

5.22.02

2. Name and address of receiving party(ies)

Name: BTU INTERNATIONAL, INC.

Internal Address:

Street Address: 23 Esquire Road

City: N. Billerica State: MA Zip: 01862

Country:

Additional name(s) & address(es) attached? [] Yes

[X]

3. Nature of conveyance:

[X] Assignment [] Merger

[] Security Agreement [] Change of
Name

[] Other

Execution Date: December 20, 2001

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: _____

A. Patent Application No.(s)

09/907,103

B. Patent No.(s)

Additional numbers attached? [] Yes [X] No

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

Weingarten, Schurgin,
Gagnebin & Lebovici LLP
Ten Post Office Square
Boston, Massachusetts 02109

6. Total number of applications and patents

Involved [1]

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

[X] Enclosed

[] Authorized to be charged to deposit account

8. Deposit account number:

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9. Statement 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.

Attorney Name: Stanley M. Schurgin
Registration No. 20,979

Signature:

Date:

5/9/02

Total number of pages including cover sheet, attachments, and document: [4]

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

EXHIBIT 1B**ASSIGNMENT**

WHEREAS, Philip Arthur Mullins, Jill Barbara Mullins and Robert Turner, the partners of HI-TECH UK, a South Yorkshire company, having its principal place of business located at Purex House, Farfield Park, Manvers, Rotherham, South Yorkshire S63 5DB, United Kingdom (collectively and together with HI-TECH UK, the "Assignor"), is the owner of all rights, title and interest in and to certain inventions ("Inventions") disclosed in a United Kingdom patent application (the "Application") listed on Schedule 1B-1 attached hereto and incorporated herein by reference, and in and to such patent application;

WHEREAS, BTU International, Inc., a Delaware corporation, having its principal place of business located at 23 Esquire Road, North Billerica, MA 01862, USA, (the "Assignee") is desirous of acquiring the entire right, title and interest in and to such Inventions and Application;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, Assignor has sold, assigned, transferred, set over, and delivered and by these presents does hereby sell, assign, transfer, set over, and deliver to Assignee, its successors and assigns, the entire right, title and interest in and to such Inventions, such Application, and any patents, and any reissues and extensions thereof, which issue or have issued in any country upon patent applications which correspond with or claim priority from any of such Application or patents or any divisional, continuation-in-whole, or continuation-in-part thereof, including the right to sue and collect for past infringement. Assignor hereby authorizes and requests the issuing patent authority to issue any patents on said Application to Assignee, the same to be held and enjoyed by Assignee for its own use, and for the use of its legal representatives, to the full term for which such patents have been granted as fully and entirely as the same would have been held by Assignor had this assignment not been made.

Assignor does hereby further covenant and agree that it will not execute any writing or do any act whatsoever conflicting with these presents, and that Assignor, its successors and assigns, will at any time upon request without further additional consideration, but at the expense of Assignee, its successors and assigns, execute such additional writings and do such additional acts as Assignee, its successors and assigns, may determine as necessary or desirable in the perfection, defense, and enjoyment of this grant, including without limitation any proceedings or transactions involving such Inventions, Applications or Patents.

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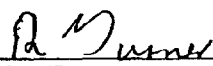
PATENT
REEL: 012917 FRAME: 0065

IN TESTIMONY WHEREOF, the undersigned have hereunto set their hands and seals to this Assignment on the date after their signatures.

For themselves and for HI-TECH UK (as Partners therein)


Philip Arthur Mullins


Jill Barbara Mullins


Robert Turner

Date: , 2001

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SCHEDULE 1B-1

U.K. Patent Applications

<u>Application Number</u>	<u>Filing Date</u>	<u>Title</u>	<u>Inventors/Applicants</u>
Q30113043.4 (attorney ref no. 2196-P102-GB)	May 30, 2001	FILTERING APPARATUS (among the parties, the "Balanced Gas Environmental System")	Philip Arthur Mullins Jill Barbara Mullins Robert Turner

U.S. Patent Applications

<u>Application Number</u>	<u>Filing Date</u>	<u>Title</u>	<u>Inventors/Applicants</u>
09/907,103	[] July 17 2001	[FILTERING APPARATUS (among the parties, the "Balanced Gas Environmental System")]	[Philip Arthur Mullins Jill Barbara Mullins Robert Turner]

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