

01-05-2004

U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket No. 05716.0008-03
Attorney Customer Number: 22,852

To the Director of the U.S. Patent and
Please record the attached original d

Mail Stop Assignment Recordation Services

1. Name of conveying party(ies):
Imtiaz Rangwalla
Harvey Clough
George Hannafin

102638175

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

Name: Energy Sciences

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

Internal Address:

3. Nature of conveyance:

Street Address: 42 Industrial Way

☒ Assignment

☐ Merger

City: Wilmington

☐ Security Agreement

☐ Change of Name

State: MA Zip Code: 01187

☐ Other:

Additional name(s) & Address(es) attached?

Execution Date: 12/18/2003
12/19/2003

☐ 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:

A. Patent Application Number: 10/631,678

B. Patent Number(s):

Additional numbers attached?

☐ Yes ☒ No

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

Name: Christopher S. Schultz

6. Total number of applications and registrations involved:
1

7. Total fee (37 CFR 3.41): \$40

☐ Enclosed (Please charge deficiency to deposit account)

☒ Authorized to be charged to deposit account

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

Street Address: 1300 I Street, N.W.

City: Washington, D.C.

State: Zip: 20005-3315

8. Deposit Account No.: 06-0916

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.

Christopher S. Schultz

Signature

Date

Total number of pages including cover sheet, attachments and documents: 2

01/05/2004 ECOOPER 00000013 060916 10631678

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CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Services under 37 C.F.R. § 1.8 on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on December 29, 2003.

Christopher S. Schultz

PATENT
REEL: 014841 FRAME: 0297

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

PARTICLE BEAM PROCESSING APPARATUS AND MATERIALS TREATABLE USING THE APPARATUS

for which I/WE executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on July 31, 2003 (Application No. 10/631,678); and

WHEREAS, **ENERGY SCIENCES**
a corporation of **MASSACHUSETTS, U.S.A.**

whose post office address is **42 INDUSTRIAL WAY, WILMINGTON, MA 01887**

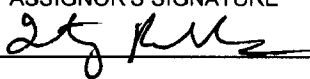

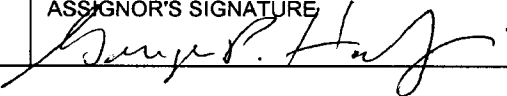
(hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/WE, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No.10/631,678, filed July 31, 2003) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s).

1. FULL NAME OF SOLE OR FIRST ASSIGNOR Imtiaz Rangwalla	ASSIGNOR'S SIGNATURE 	DATE 12/18/03
ADDRESS 1 Iron Gate Road, Andover, MA 01810		CITIZENSHIP U.S.A.
2. FULL NAME OF SECOND ASSIGNOR, IF ANY Harvey Clough	ASSIGNOR'S SIGNATURE 	DATE 12/18/03
ADDRESS 100 Tucker Farm Road, North Andover, MA 01845 44 Kilrea Road, Derry, NH 03038		CITIZENSHIP U.S.A.
3. FULL NAME OF THIRD ASSIGNOR, IF ANY George Hannafin	ASSIGNOR'S SIGNATURE 	DATE 12/19/03
ADDRESS 21 Sandalwood Road, Hudson, NH 03051		CITIZENSHIP U.S.A.

Subscribed to and sworn to before me this 18 day of December, 2003

