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Commissioner of Patents & Trademarks BOX ASSIGNMENTS 416 Rec'd PCT/PTO 18 FEB 2000

FORM PTO-1619A

(Rev. 6-99)

To the Honorable Commission

04-10-2000



U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

I document or copy thereof.

1. Submission Type

☒ New☐ Resubmission (Non-Recordation)

Document ID #

☐ Correction of PTO Error

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Filing Party(ies):

MULLINS, John Tomlinson

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

3. Name and Address of Receiving Party(ies):

Name: University of Durham

Street Address: Old Shire Hall

City: Durham

State/Country: GREAT BRITAIN Zip: DH1 3HP

Additional name(s) & address(es)

☐ Yes ☒ No

4. Nature of conveyance:

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

Execution Date: 02162000

5. Application number(s) or patent number(s):

If this document is being filed together with a new application,

☒ the first execution date of the application is: 02162000☒ the filing date of the application is: 02182000

A. Patent Application No.(s)

B. Patent No.(s)

6. Name and address of party to whom correspondence concerning this matter should be mailed:

CUSTOMER NUMBER 00136

or

JACOBSON, PRICE, HOLMAN & STERN, PLLC
400 Seventh Street, N.W.
Washington, DC 20004
Tel. 202-638-6666

Attorney Docket No. P64757US0

7. Number of applications and patents

1

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

☒ Enclosed☒ Any deficiencies in enclosed fees are authorized to be charged to deposit account 06-1358

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10. 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.

D. Douglas Price / No. 24,514

Name of Person Signing/ Reg. #

Signature

February 18, 2000

Date

Total number of pages excluding cover sheet:

-1-

UNITED STATES OF AMERICA - ASSIGNMENT

(1-5) *Insert Name(s) of Inventor* (1) John Tomlinson MULLINS
 (2)
 (3)
 (4) and
 (5)
 In consideration of the sum of one dollar (\$1.00), and other good and valuable considerations paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assigns, transfers and sets over to
 (6) *Insert Name of Assignee* (6) UNIVERSITY OF DURHAM
 (7) *Insert Address of Assignee* (7) of Old Shire Hall, Durham DH1 3HP, GREAT BRITAIN
 (8) *Insert Legal Entity and State or Country (e.g., a corporation or citizen of Japan)* (8) a university of Great Britain
 (hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention known as
 (9) *Insert Identification of Invention, such as Title, Case Number or Foreign Application Number* (9) APPARATUS AND PROCESS FOR CRYSTAL GROWTH
 for which the undersigned has (have) executed an application for patent in the United States of America
 (10) *Insert Date of signing of Application, or filing date and Serial No., if known* (10) Said application having been ~~submitted~~ filed on Feb. 18, 2000 (and assigned Serial No.)

1) The undersigned agree(s) to execute all papers necessary in connection with this application 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.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or any continuing or divisional applications thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Union for Protection of Industrial Property or similar agreements.

4) 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.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States resulting from this application or any continuing or divisional 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.

6) Assignor hereby further assigns to Assignee all claims and causes of action for infringement of the patent rights assigned herein, including the right to sue for, and collect damages for, any and all acts of past and future infringement.

7) The undersigned hereby grant(s) the law firm of Jacobson, Price, Holman & Stern, PLLC, 400 Seventh Street, N.W., Washington, D.C. 20004, 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 and Trademark Office for recordation of this document.

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

Date <u>16th February 2000</u>	Name of Inventor <u>John Tomlinson MULLINS</u>	<u>John Tomlinson</u> (SEAL)
	typed name	signature
Date _____	Name of Inventor _____	(SEAL)
	typed name	signature
Date _____	Name of Inventor _____	(SEAL)
	typed name	signature
Date _____	Name of Inventor _____	(SEAL)
	typed name	signature
Date _____	Name of Inventor _____	(SEAL)
	typed name	signature

This assignment should preferably be signed before a United States Consul if signed abroad, or a Notary Public if domestically signed. If not, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign here:

☐ Additional inventor's names and signatures on a separate sheet.

Witness X J.A. Crawley [J.A. CRAWLEY]
 Witness E.Y. Moush [E.Y. MUSH]

LAW OFFICES OF
JACOBSON, PRICE, HOLMAN & STERN
 PROFESSIONAL LIMITED LIABILITY COMPANY
 THE JENIFER BUILDING
 400 SEVENTH STREET, N.W.
 WASHINGTON, D.C. 20004

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