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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

101183810

To the Honorable Commissioner of Patents and Trademarks, Patent and Trademark Office, Washington, D.C. 20503
Original documents or copy thereof.

1. Name of conveying party(ies):
JAMES S. IM; ROBERT S. SPOSILLO and
MARK A. CROWDER

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

3. Nature of conveyance:

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

Execution Date: October 13, 1999

2. Name and address of receiving party(ies)

Name: The Trustees of Columbia University in the
City of New York

Address: 116th Street and Broadway

City: New York State: NY Zip: 10027

Additional name(s) and 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 _____

A. Patent Application No.(s)
09/390,535

B. Patent No.(s)

Additional numbers attached?

☐ Yes ☒ No

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

Name: Henry Tang

BAKER & BOTTS, L.L.P.

Address: 30 Rockefeller Plaza - 44 Fl.

City: New York State: NY Zip: 10112

6. Total number of applications and patents involved: 1

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

☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number:

02-4377

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature

To the best of my knowledge and belief, the foregoing instrumentation is true and correct and any attached copy is a true copy of the original document.

Paul A. Ragusa

Name of Person Signing

[Signature]
Signature

October 18, 1999

Date

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

4

ASSIGNMENT

WHEREAS, WE, JAMES S. IM, ROBERT S. SPOSILI AND MARK A. CROWDER, all citizens of the United States of America, all residing in County of New York, City of New York, whose post office addresses are 520 W. 114th Street, Apt 74, New York, NY 10025, 190 Claremont Avenue, Apt. 1C New York NY 10027, and 452 Riverside Drive, Apt. 34, New York NY 10027, respectively, have made an invention entitled "METHODS FOR PRODUCING UNIFORM LARGE-GRAINED AND GRAIN BOUNDARY LOCATION MANIPULATED POLYCRYSTALLINE THIN FILM SEMICONDUCTORS USING SEQUENTIAL LATERAL SOLIDIFICATION" as set forth and described in application for Letters Patent of the United States Serial No. 09/390,535 filed September 3, 1999; and

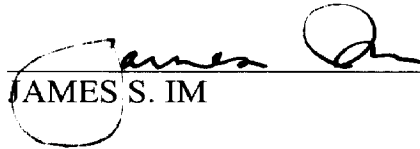
WHEREAS, THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK (hereinafter "COLUMBIA"), having its principal place of business at 116th Street & Broadway, New York, New York 10027, is desirous of acquiring the whole right, title and interest in and to said Letters Patent and any continuations, divisions, extensions, substitutions, reissues and reexaminations thereof;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that WE, JAMES S. IM, ROBERT S. SPOSILI AND MARK A. CROWDER, the said for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, to me in hand paid by said COLUMBIA, and other valuable considerations unto me moving from said COLUMBIA, at or before the ensealing and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said COLUMBIA, its successors and assigns, the entire right, title and interest in and to the said invention entitled "METHODS FOR PRODUCING UNIFORM LARGE-GRAINED AND GRAIN BOUNDARY LOCATION MANIPULATED POLYCRYSTALLINE THIN FILM SEMICONDUCTORS USING SEQUENTIAL LATERAL SOLIDIFICATION" as set forth and described in application for Letters Patent of the United States Serial No. 09/390,535 filed September 3, 1999 and any and all improvements thereon, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements, including all priority rights under the Paris Convention, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, the said JAMES S. IM, ROBERT S. SPOSILI AND MARK A. CROWDER do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said COLUMBIA, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said COLUMBIA, its successors and assigns;

AND WE, the said JAMES S. IM, ROBERT S. SPOSILI AND MARK A. CROWDER, for the considerations aforesaid, do hereby covenant and agree to and with said COLUMBIA, its successors and assigns, that we have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, our executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said COLUMBIA, its successors and assigns, may be required or necessary to more effectively secure to and vest in said COLUMBIA, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, benefits, privileges and advantages hereby sold, assigned, transferred and conveyed, and that I will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

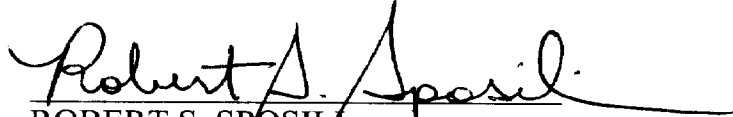
IN WITNESS WHEREOF, WE, the said JAMES S. IM, ROBERT S. SPOSILI AND MARK A. CROWDER, have hereunto set our hands and seals on the date below written.


JAMES S. IM

STATE OF)
) SS.:
COUNTY OF)

BE IT KNOWN, that on this 15th day of October, 1997, before me personally came JAMES S. IM, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.


Notary Public


 ROBERT S. SPOSILI

STATE OF)
 : SS.:
 COUNTY OF)

BE IT KNOWN, that on this 12th day of October, 1997, before me personally came ROBERT S. SPOSILI, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.


 Notary Public

MARK A. CROWDER

STATE OF)
 : SS.:
 COUNTY OF)

BE IT KNOWN, that on this 13th day of October, 1997, before me personally came MARK A. CROWDER, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.


 Notary Public