

12-06-2004



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PATENT

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Jaydeb Goswami
Sandwip Kumar Dey

Execution Date(s) November 23, 2004

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other

4. Application or patent number(s):

A. Patent Application No.(s)

☒ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Robert D. Atkins

Internal Address: QUARLES & BRADY STREICH
LANG LLPStreet Address: One Renaissance Square
Two North Central Avenue

City: Phoenix

State: Arizona Zip: 85004

Phone Number: (602) 229-5311

Fax Number: (602) 229-5690

Email Address: rda@quarles.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 17-0055

Authorized User Name Robert D. Atkins

9. Signature:

Signature

November 23, 2004

Date

Robert D. Atkins

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 3

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

Docket Number: 112624.00063

Doc. No.: 1888212

PATENT
REEL: 016034 FRAME: 087217548 U.S. PTO
10/996591

112304

10996591
170055
40.0012/03/2004
01 FC:8021

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, SANDWIP KUMAR DEY of Phoenix, AZ, have sold, assigned, and transferred, and do hereby sell, assign, and transfer unto ARIZONA BOARD OF REGENTS, acting for and on behalf of Arizona State University (ABR/ASU), a non-profit organization of the State of Arizona, having its principal office in Tempe, State of Arizona, United States of America, and its successors, assigns, and legal representatives, the entire right, title, and interest in and to certain invention(s) entitled SYSTEM AND METHOD OF SELECTIVELY DEPOSITING RUTHENIUM FILMS BY DIGITAL CHEMICAL VAPOR DEPOSITION, which is described, illustrated, and claimed in any patent application under Attorney Docket No. 112624.00063, together with the entire right, title and interest in and to the application, and in and to any continuation, continuation-in-part, division, reissue, reexamination, extension, renewal, or substitute thereof, and in and to any patent which may issue upon such application(s).

I hereby sell, assign, and transfer unto ABR/ASU, the entire right, title, and interest in and to application(s) for patent filed in all countries foreign to US, and in and to application(s) for patent filed under any and all international conventions and treaties, and in and to any patent issuing therefrom, which describe, illustrate, and claim the above-identified invention(s). I hereby also sell, assign, and transfer unto ABR/ASU, the entire right, title, and interest in and to all rights under any and all international conventions and treaties in respect of the above-identified invention(s). I authorize ABR/ASU to apply for patent in foreign countries directly in its own name, and to claim the priority of the filing date under the provisions of any and all domestic laws and international conventions and treaties.

I hereby authorize and request the government authority in US to issue patent(s) upon the aforesaid application, continuation, continuation-in-part, division, reissue, reexamination, extension, renewal, or substitute, to ABR/ASU, for the sole use and behalf of ABR/ASU, its successors, assigns, and legal representatives, to the full end of the term for which the patent(s) may be granted, the same as they would have been held and enjoyed by me had this assignment not been made. I authorize and request the equivalent authorities in countries foreign to US to issue the patents of their respective countries to and in the name of ABR/ASU in the same manner.

I agree that, when requested, I will, without charge to ABR/ASU, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient for securing and maintaining patents for the invention(s) in any and all countries and for vesting title thereto in ABR/ASU, its successors, assigns, and legal representatives or nominees.

I covenant with ABR/ASU, its successors, assigns, and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license, or other encumbrance.

Sandwip Kumar Dey
Signature for SANDWIP KUMAR DEY

STATE OF ARIZONA
COUNTY OF MARICOPA

I, Sarah Spradlin, a Notary Public in and for the County and State aforesaid, do hereby certify that SANDWIP KUMAR DEY, whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he/she signed, sealed and delivered the instrument as his/her free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 23 day of November, 2004.



Sarah Spradlin
Signature of Notary

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ASSIGNMENT AND AGREEMENT

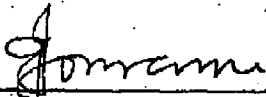
For good and valuable consideration, the receipt of which is hereby acknowledged, I, JAYDEB GOSWAMI of Boise, ID, have sold, assigned, and transferred, and do hereby sell, assign, and transfer unto ARIZONA BOARD OF REGENTS, acting for and on behalf of Arizona State University (ABR/ASU), a non-profit organization of the State of Arizona, having its principal office in Tempe, State of Arizona, United States of America, and its successors, assigns, and legal representatives, the entire right, title, and interest in and to certain invention(s) entitled SYSTEM AND METHOD OF SELECTIVELY DEPOSITING RUTHENIUM FILMS BY DIGITAL CHEMICAL VAPOR DEPOSITION, which is described, illustrated, and claimed in any patent application under Attorney Docket No. 112624.00063, together with the entire right, title and interest in and to the application, and in and to any continuation, continuation-in-part, division, reissue, reexamination, extension, renewal, or substitute thereof, and in and to any patent which may issue upon such application(s).

I hereby sell, assign, and transfer unto ABR/ASU, the entire right, title, and interest in and to application(s) for patent filed in all countries foreign to US, and in and to application(s) for patent filed under any and all international conventions and treaties, and in and to any patent issuing therefrom, which describe, illustrate, and claim the above-identified invention(s). I hereby also sell, assign, and transfer unto ABR/ASU, the entire right, title, and interest in and to all rights under any and all international conventions and treaties in respect of the above-identified invention(s). I authorize ABR/ASU to apply for patent in foreign countries directly in its own name, and to claim the priority of the filing date under the provisions of any and all domestic laws and international conventions and treaties.

I hereby authorize and request the government authority in US to issue patent(s) upon the aforesaid application, continuation, continuation-in-part, division, reissue, reexamination, extension, renewal, or substitute, to ABR/ASU, for the sole use and behalf of ABR/ASU, its successors, assigns, and legal representatives, to the full end of the term for which the patent(s) may be granted, the same as they would have been held and enjoyed by me had this assignment not been made. I authorize and request the equivalent authorities in countries foreign to US to issue the patents of their respective countries to and in the name of ABR/ASU in the same manner.

I agree that, when requested, I will, without charge to ABR/ASU, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient for securing and maintaining patents for the invention(s) in any and all countries and for vesting title thereto in ABR/ASU, its successors, assigns, and legal representatives or nominees.

I covenant with ABR/ASU, its successors, assigns, and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license, or other encumbrance.



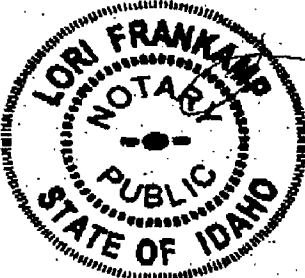
Signature for JAYDEB GOSWAMI

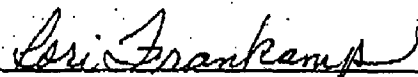
STATE OF IDAHO

COUNTY OF Ada

I, Lori Frankamp, a Notary Public in and for the County and State aforesaid, do hereby certify that JAYDEB GOSWAMI, whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he/she signed, sealed and delivered the instrument as his/her free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 23rd day of November, 2004.




Signature of Notary

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