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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Virginia Polytechnic Institute and State University
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
Name: Virginia Tech Intellectual Properties, Inc.
Address: 1872 Pratt Drive, Suite 1625
Blacksburg, Virginia 24060
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: December 16, 1999

4. Application number(s) or patent number(s):
A. Patent Application No.: 09/303,231
Title: ORGANIC POLYMER/OXIDE MULTILAYER THIN FILMS DEPOSITED BY CHEMICAL VAPOR DEPOSITION
Filed Date: April 30, 1999
Additional numbers attached? Yes No
If this document is being filed together with a new application, the execution date of the application is: ??

B. Patent No(s).:

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: D. Benjamin Borson, Ph.D.
Address: Fliesler Dubb Meyer & Lovejoy LLP
Four Embarcadero Center, Suite 400
San Francisco, CA 94111-4156
Telephone: (415) 362-3800

6. Total Number of applications and patents involved: 1 X \$40.00 each
7. Total fee (37 CFR 3.41).....\$ 40.00
 Check Enclosed
8. Fee Authorization. Authorization is given to charge any additional fees or credit any overpayment to Deposit Account No. 06-1325.
Copy. (A duplicate copy of this authorization is not enclosed.)

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.
40.00 DP
D. Benjamin Borson, Reg. No. 42,349 D. Benjamin Borson January 3, 2000
Signature Date

10. Total number of pages to be recorded: 3 (1 page cover sheet and 2 page document).

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Attorney Docket No.: QTII-08033US0 SRM/DBB
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PATENT
REEL: 010523 FRAME: 0060

ASSIGNMENT

WHEREAS, Virginia Polytechnic Institute and State University, (hereinafter referred to as ASSIGNOR), an institute of higher education organized under the laws of the Commonwealth of Virginia, having an office and principal place of business at Blacksburg, Virginia, is the owner of the entire right, title and interest in and to application for United States Letters Patent Serial No. 09/303,231 filed on April 30, 1999. in the names of Seshu B. Desu and John J. Senkevich for ORGANIC POLYMER/OXIDE MULTILAYER THIN FILMS DEPOSITED BY CHEMICAL VAPOR DEPOSITION and of the invention therein described; and

WHEREAS, Virginia Tech Intellectual Properties, Inc. (hereinafter referred to as ASSIGNEE), a non-stock corporation organized under the laws of the Commonwealth of Virginia and having a principal place of business at 1872 Pratt Drive, Suite 1625, Blacksburg, VA 24060, is desirous of acquiring the entire right, title and interest in, to and under said application and said invention and in, to and under Letters Patent or similar legal protection to be obtained therefore in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt and sufficiency of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE, its lawful successors and assigns, the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, continuation-in-part, reexamination, renewal, substitute, extension or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted; and authorize and request the Commissioner of Patents of the United States and any official of any foreign country whose duty it is to issue patents or legal equivalents thereto, to issue same for this invention to ASSIGNEE, its lawful successors and assigns.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

PATENT

| REEL: 010523 FRAME: 0061

IN WITNESS WHEREOF, ASSIGNOR has caused the hand of its proper office to be subscribed hereto this 16 day of December, 1999.

Witnessed by:

VIRGINIA POLYTECHNIC INSTITUTE
AND STATE UNIVERSITY

Paul Krejcie

Mary Adams
By: