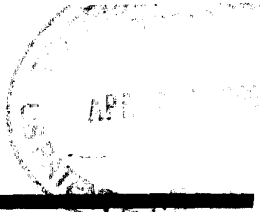


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(Rev. 6-83)

OMB No. 0851-0011 (exp. 4-94)

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Tab settings

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

1. Name of conveying party(ies):

William D. Sproul
Michael E. Graham

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

2. Name and address of receiving party(ies)

Name: Northwestern University

Internal Address: _____

Street Address: 1801 Maple Avenue

City: Evanston State: IL ZIP: 60201

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: April 20, 1996

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)

08/635,472

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Jon O. Nelson

Internal Address: _____

Street Address: Banner & Witcoff, Ltd.

10 South Wacker Drive

City: Chicago State: IL ZIP: 60606

6. Total number of applications and patents involved:

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

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

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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.

Jon O. Nelson

Name of Person Signing

Signature

April 24, 1998

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ASSIGNMENT

Case No.: **96,435**

Serial No.: 08/635,472

Inventors: **William D. Sproul and Michael E. Graham**

Date of Execution

Filing Date: April 22, 1996

of Application: April 20, 1996

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

Northwestern University, a corporation of the State of Illinois

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

METHOD OF SPUTTERING COMPOUNDS ON A SUBSTRATE

and identified as:

Case No. 96,435

in the offices of Banner & Allegretti, Ltd. and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignees, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignees, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignees, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

PATENT

REEL: 9160 FRAME: 0512

WITNESS my hand and seal this 20 day of April, 1996.

William D. Sproul

William D. Sproul

State of Illinois

County of Cook

The foregoing instrument was acknowledged before me this 20 day of April, 1996 by Wm. D. Sproul William D. Sproul

Jon O. Nelson
NOTARY PUBLIC

WITNESS my hand and seal this 20 day of April, 1996.

Michael E. Graham
Michael E. Graham

State of Illinois

County of Cook

The foregoing instrument was acknowledged before me this 20 day of April, 1996 by Wm. Michael E. Graham

Jon O. Nelson
NOTARY PUBLIC