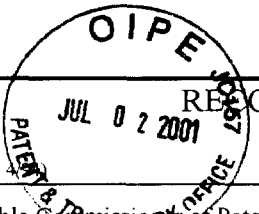


07-12-2001

FORM PTO-1595
(Rev. 6-93)

OMB No. 0651-0011 (exp. 10-31-97)



101774450

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Attorney Docket No. 5531

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

1. Name of conveying party(ies):

Bruce W. Wessels, Brent H. Hoerman and Feng Niu

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

2. Name and address of receiving party(ies)

Name: Northwestern University

Internal Address: 633 Clark Street

Evanston, IL 60208

United States

Street Address: 633 Clark Street

City: Evanston, IL 60208

United States

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

3. Nature of conveyance:

[X] Assignment [] Merger

[] Security Agreement [] Change of Name

[] Other

Execution Date: 5/23/01, 5/25/01 and 6/18/01

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):

09/726,238

B. Patent No.(s)

Additional Numbers attached? [] Yes [X] No

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

Name: Leonard J. Kalinowski

Internal Address: Reinhart, Boerner, Van Deuren,

Norris & Rieselbach, s.c.

1000 North Water Street, Suite 2100

Milwaukee, WI 53202-3186

Street Address: Reinhart, Boerner, Van Deuren,
Norris & Rieselbach, s.c.
1000 North Water Street, Suite 2100

City: Milwaukee State: WI ZIP: 53202-3186

6. Total number of applications and patents involved: [1]

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

[] Enclosed

[X] Authorized to be charged to deposit account

[X] Any deficiencies in enclosed fee should be charged to Deposit Account.

8. Deposit account number:

18-0882

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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.

Leonard J. Kalinowski

Name of Person Signing

Leonard J. Kalinowski

Signature

July 2, 2001

Date

Total number of pages including cover sheet, attachments, and document: [7]

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

Attorney Docket No. 5531

For: U.S. and/or Foreign Rights

For: U.S. Application or U.S. Patent

By: Inventor(s) or Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

(inventor(s) or

person(s) or entity(ies)
who own the invention)

Bruce W. Wessels

(Type or print name(s) of ASSIGNOR(S))

1054 Miami Road

Wilmette, IL 60091

(Address)

U.S.

(Nationality)

(inventor(s) or

person(s) or entity(ies)
who own the invention)

Brent H. Hoerman

(Type or print name(s) of ASSIGNOR(S))

800 Custer Avenue, Apt. 2D

Evanston, IL 60202

(Address)

US

(Nationality)

(inventor(s) or

person(s) or entity(ies)
who own the invention)

Feng Niu

(Type or print name(s) of ASSIGNOR(S))

704 Stewart Street, Apt. 2D

Evanston, IL 60202

(Address)

(Nationality)

(Nationality)

(If assignment is by person or entity to whom invention was previously assigned and this was recorded in PTO add the following)

Recorded on _____
Reel _____
Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

Northwestern University
(Type or print name of ASSIGNEE)

633 Clark Street
(Address)

Evanston, IL 60208

United States
(Nationality)

and the successors, assigns and legal representatives of the ASSIGNEE
(complete one of the following)

- the entire right, title and interest
- an undivided _____ percent (_____ %) interest for the United States and its territorial possessions

(check the following box if foreign rights are also to be assigned)

and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled:

OXIDE THIN FILMS AND COMPOSITES AND RELATED METHODS OF DEPOSITION

(check and complete (a), (b), (c) or (d))

and which is found in

- (a) U.S. patent application executed on even date herewith
- (b) U.S. patent application executed on _____
- To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney, as named in the Declaration and Power of Attorney I executed for this invention on the execution date stated above, to insert below the

(d) U.S. patent no. _____ issued _____

A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (e) if foreign application(s) is also being assigned)

(e) and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

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;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives 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 which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand the date indicated below.

WARNING: Date of signing must be the same as the date of execution of the application if item (a) was checked above.

Signature of ASSIGNOR(S)

Bruce W. Wessels May 23, 01
(Date)

Brent H. Hoerman _____
(Date)

Feng Niu May 25, 01
(Date)

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution 35 USC 261. Use next page if notarization is desired.

Notarization or Legalization Page Added.

Attorney Docket No. 5531

For: U.S. and/or Foreign Rights

For: U.S. Application or U.S. Patent

By: Inventor(s) or Present Owner

ASSIGNMENT OF INVENTION

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ASSIGNOR:

(inventor(s) or

person(s) or entity(ies)
who own the invention)

Bruce W. Wessels

(Type or print name(s) of ASSIGNOR(S))

1054 Miami Road

Wilmette, IL 60091

(Address)

U.S.

(Nationality)

(inventor(s) or

person(s) or entity(ies)
who own the invention)

Brent H. Hoerman

(Type or print name(s) of ASSIGNOR(S))

1063 Mosser Rd., Apt M104

800 Custer Avenue, Apt. 2D

Evanston, IL 60202

(Address)

Breinigsville, PA 18031

US

(Nationality)

(inventor(s) or

person(s) or entity(ies)
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704 Stewart Street, Apt. 2D

Evanston, IL 60202

(Address)

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and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

the entire right, title and interest

an undivided _____ percent (_____ %) interest
for the United States and its territorial possessions

(check the following box if foreign rights are also to be assigned)

and in all foreign countries, including all rights to claim priority,
in and to any and all improvements which are disclosed in the invention entitled:

OXIDE THIN FILMS AND COMPOSITES AND RELATED METHODS OF
DEPOSITION

(check and complete (a), (b), (c) or (d))

and which is found in

(a) U.S. patent application executed on even date herewith

(b) U.S. patent application executed on _____

To comply with 37 CFR 3.21 for recordal of this assignment, I, an
ASSIGNOR signing below, hereby authorize and request my attorney, as
named in the Declaration and Power of Attorney I executed for this
invention on the execution date stated above, to insert below the
filing date and application number when it becomes known.

(c) U.S. application serial no. 09/726,238 on November 29, 2000.

filing date and application number when it becomes known.

(c) [X] U.S. application serial no. 09/726,238 on November 29, 2000.

(d) [] U.S. patent no. _____ issued _____

[] A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (e) if foreign application(s) is also being assigned)

(e) [X] and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

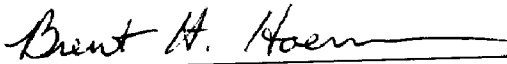
ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives 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 which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand the date indicated below.

WARNING: Date of signing must be the same as the date of execution of the application if item (a) was checked above.

Signature of ASSIGNOR(S)

_____ Bruce W. Wessels	(Date)
 _____ Brent H. Hoerman	6/18/01 (Date)
_____ Feng Niu	(Date)

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or