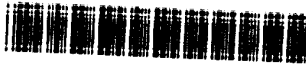


08-28-1998

U.S. Department of Commerce
Patent and Trademark Office
PATENT



100808897

MRD 8-21-98

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

WPI97-01

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

New

Resubmission (Non-Recordation)
Document ID#

Correction of PTO Error
Reel # Frame #

Corrective Document
Reel # Frame #

Conveyance Type

Assignment Security Agreement

License Change of Name

Merger Other

U.S. Government
(For Use ONLY by U.S. Government Agencies)

Departmental File Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached

Name (line 1) Execution Date Month Day Year

Name (line 2)

Second Party

Name (line 1) Execution Date Month Day Year

Name (line 2)

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

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City State/Country ZipCode

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

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617-797-2627

Name R. Dennis Creehan

Address (line 1) P.O. Box 750070

Address (line 2) Arlington Heights, MA 02175-0070

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Pages

Enter the total number of pages of the attached conveyance document including any attachments.

4

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

08/904,789

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$

40

Method of Payment:
Deposit Account

Enclosed Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

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Authorization to charge additional fees:

Yes

No

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. Charges to deposit account are authorized, as indicated herein.

R. Dennis Creehan

R. Dennis Creehan

5/19/98

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Signature

Date

**RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY**

Conveying Party(ies)

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Enter additional Conveying Parties

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Receiving Party(ies)

Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

Name (line 1)

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Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

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ASSIGNMENT

WHEREAS, we, Reinhold Ludwig, John A. McNeill, and Jennifer A. Stander, have invented a certain improvement in MULTI-PROBE IMPEDANCE MEASUREMENT SYSTEM AND METHOD FOR DETECTION OF FLAWS IN CONDUCTIVE ARTICLES described in an application for Letters Patent of the United States, Serial No. 08/904,789, filed August 1, 1997.

WHEREAS, Worcester Polytechnic Institute (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 100 Institute Road, Worcester, Massachusetts 01609 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout, the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon

to said ASSIGNEE, its successors, assigns, and legal representatives;

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor: Reinhold Ludwig
Reinhold Ludwig

State/Commonwealth of Massachusetts
County of Worcester

Then personally appeared before me the above-named Reinhold Ludwig and acknowledged that he executed the foregoing instrument as his free act and deed this 25 day of February 1998.

Marjorie A. Roncone
Marjorie A. Roncone Notary Public

(SEAL)

Marjorie A. Roncone (print name)

My Commission expires on MY COMMISSION EXPIRES APRIL 19, 2002

Inventor: _____
John A. McNeill

State/Commonwealth of _____
County of _____

Then personally appeared before me the above-named John A. McNeill and acknowledged that he executed the foregoing instrument as his free act and deed this ____ day of _____ 1998.

Notary Public

(SEAL)

(print name)

My Commission expires on _____

to said ASSIGNEE, its successors, assigns, and legal representatives;

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor: _____
Reinhold Ludwig

State/Commonwealth of _____
County of _____

Then personally appeared before me the above-named Reinhold Ludwig and acknowledged that he executed the foregoing instrument as his free act and deed this _____ day of _____ 1998.

Notary Public

(SEAL)

(print name)

My Commission expires on _____

Inventor: John A. McNeill
John A. McNeill

State/Commonwealth of Massachusetts
County of Worcester

Then personally appeared before me the above-named John A. McNeill and acknowledged that he executed the foregoing instrument as his free act and deed this 24th day of February 1998.

Mary G. Kelley Notary Public

(SEAL)

Mary G. Kelley (print name)

My Commission expires on Feb. 24, 2000

Inventor: Jennifer Stander
Jennifer A. Stander

State/Commonwealth of Massachusetts
County of Worcester

Then personally appeared before me the above-named Jennifer A. Stander and acknowledged that she executed the foregoing instrument as her free act and deed this 31 day of March 1998.



Marjorie A. Creamer Notary Public
MARJORIE A. CREAMER (print name)

My Commission expires on _____

MARJORIE A. CREAMER
Notary Public
My Commission Expires March 20, 2003