

09-12-2000



Form PTO-1595

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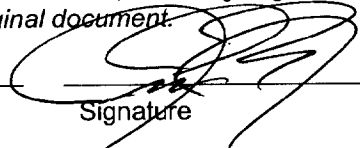
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U.S. Department of Commerce
Patent and Trademark Office

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

<p>1. Name of conveying party(ies): Ryszard J. Jankowiak, Chris Schilling, Gerald J. Small and Piotr Tomasiak</p> <p>Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies): Name: Iowa State University Research Foundation, Inc.</p> <p>Internal Address:</p> <p>Street Address: 310 Lab of Mechanics</p> <p>City: Ames</p> <p>State: Iowa Zip: 50011</p> <p>Country:</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of Conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other</p> <p>Execution Date(s): August 7, 2000 and August 9, 2000</p>	<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the Execution date(s) of the new application is (are):</p> <p>A. Patent Application No.(s): 09/556,008</p> <p>B. Patent No.(s):</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP</p> <p>Internal Address: Atty. Dkt.: I9000.0037/P037</p> <p>Attn: James W. Brady, Jr.</p> <p>Street Address: 2101 L Street NW</p> <p>City: Washington State: DC Zip: 20037 - 1526</p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 C.F.R 3.41) \$ 40.00</p> <p><input checked="" type="checkbox"/> Enclosed</p> <p><input type="checkbox"/> Authorized to be charged to deposit account</p> <p><input checked="" type="checkbox"/> Credit any overpayment or debit any underpayment</p> <p>8. Deposit account number: 4 - 1073</p>
DO NOT USE THIS SPACE	
<p>9. Statement and signature.</p> <p><i>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.</i></p> <p>James W. Brady Jr.  September 6, 2000</p> <p style="text-align: center;">Signature Date</p> <p>Reg. No. 32,115</p>	
<p>Total number of pages including cover sheet, attachments, and document: 7</p>	

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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made this 9th day of August,
2000 by Ryszard J. Jankowiak, Chris Schilling, Gerald J. Small and Piotr
Tomasik, (hereinafter referred to as Assignors), all residing at ;

c/o Iowa State University Research Foundation, Inc., 310 Lab of
Mechanics, Ames, Iowa 50011-2131.

WHEREAS, Assignors have invented certain new and useful
improvements in METHOD AND APPARATUS FOR CERAMIC ANALYSIS,
set forth in an application for Letters Patent of the United States, already filed
April 20, 2000 as U.S. application Serial No. 09/556,008 and

WHEREAS, Iowa State University Research Foundation, Inc., a
corporation organized under and pursuant to the laws of Iowa having its principal
place of business at 310 Lab of Mechanics, Ames, Iowa 50011-2131 (hereinafter
referred to as Assignee), is desirous of acquiring the entire right, title and interest
in and to said inventions and said Application for Letters Patent of the United
States, and in and to any Letters Patent of the United States to be obtained
therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and
other good and sufficient consideration, the receipt of which is hereby
acknowledged, Assignors have sold, assigned, transferred and set over, and by
these presents do sell, assign, transfer and set over, unto Assignee, its successors,
legal representatives and assigns, the entire right, title and interest in and to the

above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owner of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts

necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP

Gary M. Hoffman, 26,411; Thomas J. D'Amico, 28,371; Donald A. Gregory, 28,954; James W. Brady Jr., 32,115; Jon D. Grossman, 32,699; Mark J. Thronson, 33,082; Jeremy A. Cubert, 40,399; Laurence E. Fisher, 37,131; Brian A. Lemm, 43,748; John F. Levis, 34,210; Gianni Minutoli, 41,198; Edwin Oh, P-45,319; Eric Oliver, 35,307; William E. Powell III, 39,803; Paul L. Ratcliffe, 45,290; Mark E. Strickland, 45,138 and Salvatore P. Tamburo, P-45,153

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

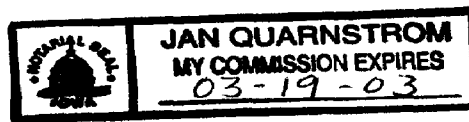
Ryszard J. Jankowiak
Ryszard J. Jankowiak

Date August 9, 2000

United States of America)
State of IOWA)ss.:
County of STORY)

On this 9th day of August, 2000, before me personally came Ryszard J. Jankowiak, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

JAN QUARNSTROM
Notary Public



Chris Schilling
Chris Schilling

Date 08-07-00

:
United States of America)

State)ss.:

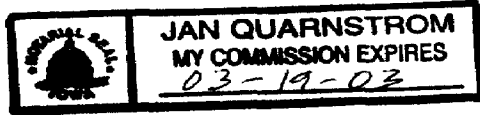
of IOWA

County)

of STORY

On this 7th day of August, 2000, before me personally came Chris Schilling, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

JAN QUARNSTROM
Notary Public



Gerald J. Small
Gerald J. Small

Date 08-07-00

:
United States of America)

State)ss.:

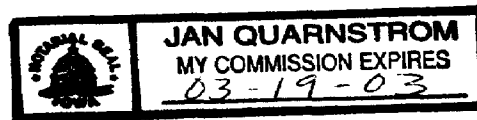
of IOWA

County)

of STORY

On this 7th day of August, 2000, before me personally came Gerald J. Small, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

JAN QUARNSTROM
Notary Public



Piotr Tomasiak
Piotr Tomasiak

Date 08-07-00

:
United States of America)

State
of IOWA)ss.:

County
of STORY)

On this 7th day of August, 2000, before me personally came Piotr Tomasiak, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

JAN QUARNSTROM
Notary Public

