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TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):  
**Clive A. Randall, Amanda L. Baker, Yi Fang, Thomas Shrout**
2. Name and address of receiving party(ies):  
**The Penn State Research Foundation  
113 Technology Center  
200 Innovation Boulevard  
University Park, Pennsylvania 16802-7000**
3. Nature of conveyance:  

<u>XXXXX</u>	Assignment	_____	Merger
_____	Security Agreement	_____	Change of Name
_____	Other:	_____	

Execution Date: **January 14, 2002, January 15, 2002, January 17, 2002,  
January 17, 2002, respectively**
4. Application number(s) or application date(s):  
If this document is being filed together with a new application, the execution date of the application is:  
A. Application No. B. Filing Date  
**09/993,284 November 16, 2001**
5. Name and address of party to whom correspondence concerning this document should be mailed:  

Paul D. Greeley, Esq.  
Ohlandt, Greeley, Ruggiero & Perle, L.L.P.  
One Landmark Square, 10th Floor  
Stamford, Connecticut 06901-2682 U.S.A.
6. Total No. of applications and patents involved: 1.
7. Total Fee (37 C.F.R. 3.41(h)) \$40.00/assignment.  

<u>X</u>	Enclosed
_____	Authorized to be charged to deposit account.

The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 3.41 that may be required with this communication or credit any overpayment, to Deposit Account No. 01-0467. A duplicate copy of this Form is enclosed.

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.

Paul D. Greeley \_\_\_\_\_

Name of Person Signing

Paul D. Greeley  
Signature

February 7, 2002

Date

Total number of pages including cover sheet, attachments and document: 2.

02/28/2002 HDEMESS1 00000026 09993284

03 FC:581

40.00 DP

## **ASSIGNMENT**

FOR valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, Clive A. Randall, a citizen of the United Kingdom, and a resident of State College, Pennsylvania, U.S.A., I, Amanda L. Baker, a citizen of the United States of America and a resident of Boalsburg, Pennsylvania, U.S.A., I, Yi Fang, a citizen of the \_\_\_\_\_, and a resident of State College, Pennsylvania, U.S.A., and I, Thomas Shrout, a citizen of the United States of America and a resident of Port Matilda, Pennsylvania, U.S.A., have invented certain new and useful improvements in

### **COFIRED MULTILAYERED PIEZOELECTRIC CERAMIC MATERIALS WITH BASE METAL ELECTRODES**

hereby assigns to The Penn State Research Foundation, a Not for Profit organization, having its principal office 113 Technology Center, 200 Innovation Boulevard, University Park, Pennsylvania 16802-7000 (hereinafter referred to as "Assignee"), of the entire right, title and interest in and to such invention, together with the patent rights and rights of protection to the same throughout the world, including the rights to claim priority, and including any patent rights which may result from the application for United States Letters Patent which was filed in the United States Patent and Trademark Office on November 16, 2001, and assigned U.S. Application Serial No. 09/993,284, and any continuation, divisions, continuation-in-part applications, inventor's certificate and extensions thereof, preparatory to obtaining Letters Patent of the United States therefor; said invention, application and Letters Patent to be held and enjoyed by said Assignee for their own use and behoof and for the use and behoof of their successors and assigns, to the full end of the term for which said Letters Patent or other rights of protection may be granted as entirely as the same would have been held and enjoyed by us had the assignment not been made.

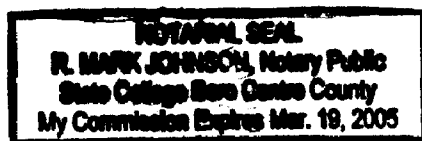
AND WE COVENANT and AGREE and WARRANT that we have a full and unencumbered title to the invention hereby assigned, and we further covenant and agree that we have the right to grant such rights to said invention and application and Letters Patent and that we will, at any time upon request without cost to us or further compensation, execute and deliver any and all papers or instruments that, in the opinion of the Assignee, may be necessary or desirable to secure said Assignee the full enjoyment of the rights and properties herein conveyed or intended to be conveyed by this instrument.

IN WITNESS WHEREFORE, we have hereunto set our hands and seal:

Date: 15 Jan., 2002 Clive A Randall  
By: CLIVE A. RANDALL

STATE OF PA. )  
COUNTY OF CENTRE ) ss 173-66-5853

Sworn to before me this 4 day of FEB, 2002

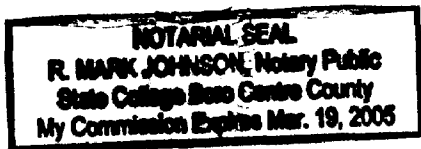


R Mark Joh  
Notary Public

Date: 1/15, 2002 By: Amanda L. Baker

STATE OF Pa )  
COUNTY OF Centre ) SS 165-52-3035

Sworn to before me this 4 day of FEB, 2002

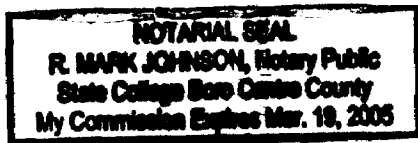


R Mark Johnson  
Notary Public

Date: 1/17/02, 2001 By: YI FANG

STATE OF PA )  
COUNTY OF Centre ) SS 202-66-6030

Sworn to before me this 4 day of FEB, 2002

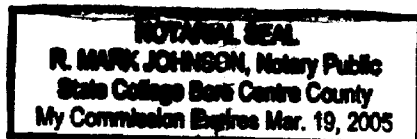


R Mark Johnson  
Notary Public

Date: 2-9-2002, 2002 [Signature]  
By: THOMAS SHROUT

STATE OF PA )  
COUNTY OF CENTRE ) SS 216-44-992

Sworn to before me this 4 day of FEB, 2002



[Signature]  
Notary Public