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07-29-1999

ocket No.: 234328

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(Rev. 6-93)  
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101103576

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

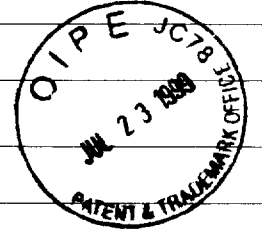
1. Name of conveying party(ies):  
**James S. Vartuli**      **Robert K. Prud'Homme**  
**David L. Milius**      **Ilhan A. Aksay**  
**Xiaoping Li**  
**Wei H. Shih**  
**Wan Y. Shih**

Additional names(s) of conveying party(ies)     Yes     No

2. Name and address of receiving party(ies):

Name: The Trustees of Princeton University

Internal Address: Princeton University



Street Address: P.O. Box 36

City: Princeton      State: NJ      ZIP: 08544-

3. Nature of conveyance:

Assignment       Merger

Security Agreement       Change of Name

Other

Execution Date: 6/28/99, 6/25/99, 6/30/99, 7/12/99

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

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

09/302,758

07/27/1999 INWARD 00000038 09302758

04 FC:581      40.00 OP

Additional numbers attached?     Yes     No

B. Patent No.(s)

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

Name: Michael R. Friscia

Internal Address: Friscia & Nussbaum

Street Address: One University Plaza

City: Hackensack      State: NJ      ZIP: 07601

6. Total number of applications and patents involved: 1

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

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

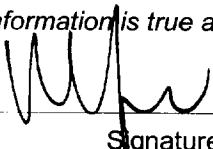
8. Deposit account number:

06-2143

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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.*

Michael R. Friscia            7/20/99

Name of Person Signing      Signature      Date

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

## ASSIGNMENT

WHEREAS, JAMES S. VARTULI of 94 Circular Street #7, Saratoga Springs, New York 12866, DAVID L. MILIUS of 9191 North II, Cranbury, New Jersey 08512, XIAOPING Li of 2500 Knights Road 139-05, Bensalem, Pennsylvania 19104, WEI H. SHIH of 641 Heather Lane, Bryn Mawr, Pennsylvania 19010, WAN Y. SHIH of 641 Heather Lane, Bryn Mawr, Pennsylvania 19010, ROBERT K. PRUD'HOMME of 61 Lilly Street, Princeton Junction, New Jersey 08550, and ILHAN A. AKSAY of 16 Kimberly Court, Princeton, New Jersey 08540, as "assignors," as co-inventors of the invention entitled MULTILAYER CERAMIC PIEZOELECTRIC LAMINATES WITH ZINC OXIDE CONDUCTORS for which application for Letters Patent in the United States has been filed on April 30, 1999 as Serial No. 09/302,758.

WHEREAS, THE TRUSTEES OF PRINCETON UNIVERSITY, having a place of business at Princeton University, P.O. Box 36, Princeton, New Jersey, 08544-0036, as "assignee," is desirous of acquiring all right, title, and interest in and to said invention, said patent application and any Letters Patent that may be granted therefor throughout the world.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, assignor hereby sells, assigns and sets over to assignee the entire right, title and interest for the United States and its dependencies and possessions and throughout the world, in and to said invention, said application and any Letters Patent and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States and throughout the world;



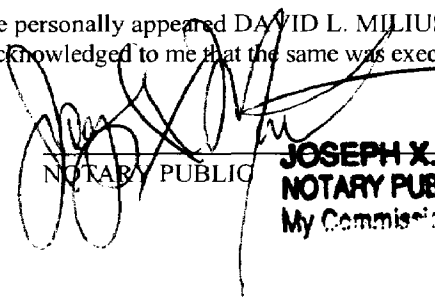
6-24-99

Date

By: David L. Milius  
David L. Milius

STATE OF New Jersey )  
 ) ss:  
COUNTY OF Mercer )

On this 25<sup>th</sup> day of June, 1999, before me personally appeared DAVID L. MILIUS, personally known to me as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him of his own free will for the purposes therein set forth.

  
NOTARY PUBLIC  
**JOSEPH X. MONTEMARANO**  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires Nov. 3, 2000

Date

By: \_\_\_\_\_  
Xiaoping Li

STATE OF )  
 ) ss:  
COUNTY OF )

On this \_\_\_ day of \_\_\_\_\_, 1999, before me personally appeared XIAOPING LI, personally known to me as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him of his own free will for the purposes therein set forth.

\_\_\_\_\_  
NOTARY PUBLIC

Date

By: \_\_\_\_\_  
Wei H. Shih

STATE OF )  
 ) ss:  
COUNTY OF )

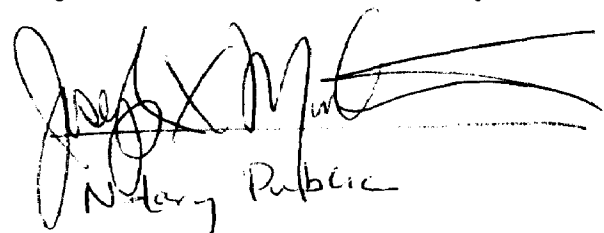
On this \_\_\_ day of \_\_\_\_\_, 1999, before me personally appeared WEI H. SHIH, personally known to me as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him of his own free will for the purposes therein set forth.

6-25-99  
Date

By: Wan Y. Shih  
Wan Y. Shih  
**JOSEPH X. MONTEMARANO**  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires Nov. 3, 2000

STATE OF New Jersey )  
 ) ss:  
COUNTY OF Mercer )

On this 25<sup>th</sup> day of June, 1999, before me personally appeared WAN Y. SHIH, personally known to me as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him of his own free will for the purposes therein set forth.

3   
Notary Public



6-25-99

Date

By: David L. Milius  
David L. Milius

STATE OF New Jersey )  
  ) ss:  
COUNTY OF Mercer )

On this 25<sup>th</sup> day of June, 1999, before me personally appeared DAVID L. MILIUS, personally known to me as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him of his own free will for the purposes therein set forth.

[Signature]  
NOTARY PUBLIC **JOSEPH X. MONTEMARANO**  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires Nov. 3, 2000

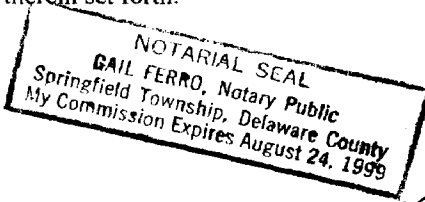
Date

By: intentionally blank  
Xiaoping Li

STATE OF Delaware )  
  ) ss:  
COUNTY OF Delaware )

On this 30 day of June, 1999, before me personally appeared XIAOPING LI, personally known to me as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him of his own free will for the purposes therein set forth.

[Signature]  
NOTARY PUBLIC



6/30/99  
Date

By: [Signature]  
Wei H. Shih

STATE OF )  
  ) ss:  
COUNTY OF )

On this \_\_\_ day of \_\_\_\_\_, 1999, before me personally appeared WEI H. SHIH, personally known to me as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him of his own free will for the purposes therein set forth.

6-25-99  
Date

By: Wan Y. Shih  
Wan Y. Shih **JOSEPH X. MONTEMARANO**  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires Nov. 3, 2000

STATE OF New Jersey )  
  ) ss:  
COUNTY OF Mercer )

On this 25<sup>th</sup> day of June, 1999, before me personally appeared WAN Y. SHIH, personally known to me as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him of his own free will for the purposes therein set forth.

3 [Signature]  
Notary Public

6.23.99

Date

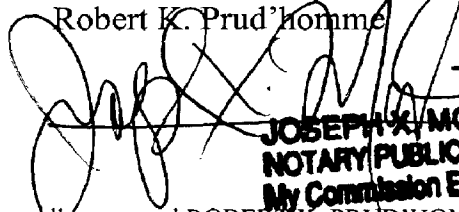
By: Robert K. Prud'homme  
Robert K. Prud'homme

STATE OF

NT )

COUNTY OF

Mercer ) ss:

  
**JOSEPH X. MONTEMARANO**  
**NOTARY PUBLIC OF NEW JERSEY**  
**My Commission Expires Nov. 3, 2000.**

On this 24 day of June, 1999, before me personally appeared ROBERT K. PRUD'HOMME, personally known to me as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him of his own free will for the purposes therein set forth.

6.25.1999

Date

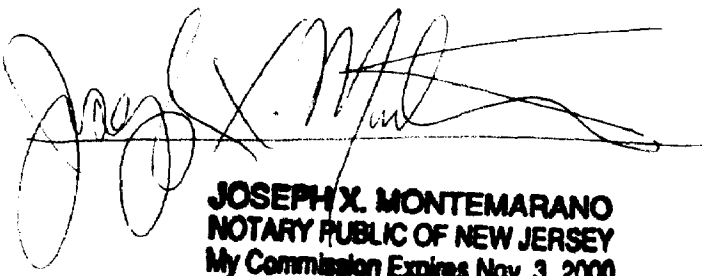
By: Ilhan A. Aksay  
Ilhan A. Aksay

STATE OF New Jersey )

) ss:

COUNTY OF Mercer )

On this 25<sup>th</sup> day of June, 1999, before me personally appeared ILHAN A. AKSAY, personally known to me as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him of his own free will for the purposes therein set forth.

  
**JOSEPH X. MONTEMARANO**  
**NOTARY PUBLIC OF NEW JERSEY**  
**My Commission Expires Nov. 3, 2000**