502088325 10/09/2012

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Thomas R. Shrout	09/19/2012
Shujun Zhang	10/09/2012
Fei Li	10/09/2012

RECEIVING PARTY DATA

Name:	The Penn State Research Foundation
Street Address:	304 Old Main
City:	University Park
State/Country:	PENNSYLVANIA
Postal Code:	16802

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13206971

CORRESPONDENCE DATA

Fax Number: 7349136007

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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ATTORNEY DOCKET NUMBER: PST-66980/36

NAME OF SUBMITTER: Douglas L. Wathen

Total Attachments: 2

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PATENT

REEL: 029096 FRAME: 0769

ASSIGNMENT

FOR VALUE RECEIVED, and pursuant to my obligations under our employment agreements/appointments with THE PENNSYLVANIA STATE UNIVERSITY ("University"), we THOMAS R. SHROUT, SHUJUN ZHANG and FEI LI, hereby sell, assign and transfer unto the University's designee, THE PENN STATE RESEARCH FOUNDATION, as assignee, and its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter invented by me and disclosed or claimed in an application for Letters Patent of the United States of America, entitled:

"Temperature and Field Stable Relaxor-PT Piezoelectric Single Crystals"

signed by me on the date set forth below; and in and to any and all continuations, continuations-in-part, divisions, reissues, renewals, extensions, substitutions, additions or reexaminations of such application and any U.S. patents issuing thereon; and in and to any and all corresponding international and foreign applications for Letters Patent and any foreign patents issuing thereon; and all Convention and Treaty Rights of any kind, in all countries throughout the world, for all such subject matter; together with all claims for damages by reason of future, present and past infringement, with the right to sue for and collect the same for assignee's use and on behalf of assignee's successors, assigns and legal representative.

We request that any and all patents for said inventions be issued to said assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing, maintaining and enforcing patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of said assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

We covenant with said assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

Signed at University Park, Pennsylvania, this	19th day of September, 2012.
Witness: Named J. Sompust	Signed: THOMAS R. SHROUT
STATE OF PENNSYLVANIA : s	s:
COUNTY OF CENTRE :	
State aforesaid appeared Thomas R. Shrout, to	, 2012, before me, a Notary Public in and for the county and me personally known to be the person whose name is subscribed to the executed said instrument as his free and voluntary act for the uses and purposes

Notary Public

[Page 1 of 2 - Signatures Continued on Page 2]

Witness my hand and scal the day and year last above given.

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal

Donna A. Jones, Notary Public
State College Boro, Centre County
My Commission Expires April 18, 2015

MEMBER, PENNSYLVANIA ASSERIATION OF NOTARIES

PATENT

REEL: 029096 FRAME: 0770

[Page 2 of 2 - Assignment Signatures Continued]

Signed at University Park, Pennsylvania, this day of october	, 2012.
Witness: Mun Coard Signed: Shujun ZH	m's zuf
STATE OF PENNSYLVANIA : : ss:	
COUNTY OF CENTRE : ss:	
On thisday of, 2012, before me, a N State aforesaid, appeared _Shujun Zhang, to me personally known to be the person winstrument, and acknowledged that he executed said instrument as his free and volunta expressed.	nose name is subscribed to the foregoing
Witness my hand and seal the day and year last above given.	
Notary Public	
Signed at University Park, Pennsylvania, this 9th day of	Oct ,2005.
Signed at University Park, Pennsylvania, this 9-6 day of	/ · -I
STATE OF :	
COUNTY OF : ss:	
On thisday of, 2012, before me, a N State aforesaid, appeared _Fei Li_, to me personally known to be the person whose na instrument, and acknowledged that he executed said instrument as his free and volunt expressed.	me is subscribed to the foregoing
Witness my hand and seal the day and year last above given.	
Notary Public	

PATENT REEL: 029096 FRAME: 0771

RECORDED: 10/09/2012