Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Andrew Marshall Rappe	09/18/2007
Na Sai	09/21/2007
Alexie Michelle Kolpak	11/30/2007

RECEIVING PARTY DATA

Name:	The Trustees Of The University Of Pennsylvania	
Street Address:	3160 Chestnut Street	
City:	Philadelphia	
State/Country:	PENNSYLVANIA	
Postal Code:	19104	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11774793

CORRESPONDENCE DATA

Fax Number: (215)568-3439

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

Phone: 215-568-3100

Email: fpoore@woodcock.com

Correspondent Name: Woodcock Washburn, LLP

Address Line 1: 2929 Arch Street
Address Line 2: Cira Centre, 12th Floor

Address Line 4: Philadelphia, PENNSYLVANIA 19104-2891

ATTORNEY DOCKET NUMBER:	UPNA-0103
NAME OF SUBMITTER:	Faith A Poore

Total Attachments: 4

source=UPNA-0103-Assignment#page1.tif

PATENT REEL: 020291 FRAME: 0650

500427798

CH \$40,00

source=UPNA-0103-Assignment#page2.tif source=UPNA-0103-Assignment#page3.tif source=UPNA-0103-Assignment#page4.tif

> PATENT REEL: 020291 FRAME: 0651

PATENT Joint Inventors (Pending Application; Application No. Known)

ASSIGNMENT

DOCKET NO.: UPNA-0103 / S4186

WHEREAS, we Andrew Marshall Rappe residing at 1248 Greentree Lane, Penn Valley, Pennsylvania 19072, Na Sai residing at 7701 Rialto Boulevard, #1326, Austin, Texas 78735, and Alexie Michelle Kolpak residing at 39B Woodland Street, New Haven, Connecticut 06511, hereinafter referred to as the assignors, are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Application No. 11/774,793, filed July 9, 2007, entitled FERROELECTRIC THIN FILMS; and

WHEREAS, The Trustees Of The University Of Pennsylvania hereinafter referred to as the assignee, of 3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104, a university of higher education in Pennsylvania, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said provisional application, and to any patent application(s) corresponding thereto, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in exchange for valuable consideration from the receipt of which is hereby acknowledged and intending to be bound, we, the said assignors, have sold, assigned, transferred and set over, effective as of July 9, 2006, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said provisional application and any and all corresponding patent application(s) and continuations, divisions and renewals of and substitutes for said corresponding patent application(s), and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names corresponding patent applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything

PATENT Joint Inventors (Pending Application; Application No. Known)

possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we hereby authorize our attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

18 Sep 2007
Date

STATE OF Philadelphia: SS

DOCKET NO.: UPNA-0103 / S4186

On this ______ day of ______ year of 2007, before me personally came the above named Andrew Marshall Rappe to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set Maylon Clarke Notary Public

NOTARIAL SEAL

Mary Ann Clarke. Notary Public Philadelphia, Philadelphia County My commission expires November 14, 2007

DOCKET NO.: UPNA-0103/S4186

PATENT Joint Inventors (Pending Application; Application No. Known)

(L.S.)

COUNTY OF <u>Inavia</u>

On this 2/st day of September, year of 2007, before me personally came the above named Na Sai to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Forraine o Sanch Notary Public

LORRAINE SANCHEZ Notary Public, State of Texas My Commission Expires NOVEMBER 08, 2008

Notary : mout Bond

DOCKET NO.: UPNA-0103 / S4186

PATENT Joint Inventors (Pending Application; **Application No. Known**)

11/30/07	Slevie M Poppake_ (L.S.)
Date	Alexie Michelle Kolpak

STATE OF COMPLETICAL : SS COUNTY OF NEW Haven :

RECORDED: 12/27/2007

On this 30 day of November, year of 2007, before me personally came the above named Alexie Michelle Kolpak to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth. Swha J. Mangain Notary Public

PATENT REEL: 020291 FRAME: 0655