

Form PTO-1595 (Rev. 07/05)  
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### RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the now address(es) below.

**1. Name of conveying party(ies)**

Susan Troller-McKinstry (executed 7/11/2007)

Additional name(s) of conveying party(ies) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) \_\_\_\_\_

- Assignment  Merger
- Security Agreement  Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other \_\_\_\_\_

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

Name: The Penn State Research Foundation

Internal Address: \_\_\_\_\_

Street Address: 304 Old Main

City: University Park

State: PA

Country: US Zip: 16802

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

**4. Application or patent number(s):**

This document is being filed together with a new application.

A. Patent Application No.(s)

117745,615

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Douglas L. Wathen

Internal Address: Suite 300

Street Address: 303 Detroit Street

City: Ann Arbor

State: MI Zip: 48104

Phone Number: 734-913-9300

Fax Number: 734-913-6007

Email Address: docket@patlaw.com

**6. Total number of applications and patents involved: 1**

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

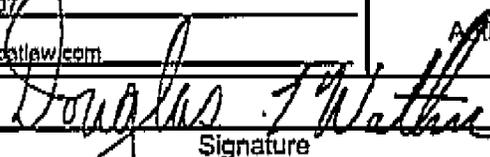
**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 07-1180

Authorized User Name Douglas L. Wathen

**9. Signature:**



Signature

August 29, 2007

Date

Douglas L. Wathen  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, VA, 22313-1450

CH \$40.00 071180 11745615

USSN 11/745,615

Page 2

August 29, 2007

Additional Assignors and corresponding execution dates:

<u>Inventor</u>	<u>Execution Date</u>
Thomas N. Jackson	7/19/2007
Kyusun Choi	7/16/2007
Richard L. Tutwiler	7/16/2007
In Soo Kim	7/16/2007
Hyun Soo Kim	7/19/2007
Sung Kyu Park	7/19/2007
Ioanna G. Mina	8/25/2007

## ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT**, made by Susan Trolier-McKinstry; Thomas N. Jackson; Kyusun Choi; Richard L. Tutwiler; In Soo Kim; Hyun Soo Kim; Sung Kyu Park; and Ioanna G. Mina (hereinafter referred to as Assignors), residing at 626 Berkshire Dr., State College, Pennsylvania 16803; 1348 Deerfield Dr., State College, Pennsylvania 16803; 2423 Raven Hollow Rd., State College, Pennsylvania 16801; 133 Colgate Ct., Port Matilda, Pennsylvania 16870; 265 Blue Course Dr., No. 8D, State College, Pennsylvania 16803; 205 White Course F, University Park, Pennsylvania 16802; 446 Blue Course Dr., No. 502, State College, Pennsylvania 16801; and 343 Oakwood Ave., State College, Pennsylvania 16803, respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in HIGH FREQUENCY ULTRASOUND TRANSDUCERS, set forth in a Patent application for Letters Patent of the United States, filed on May 8, 2007 as U.S. Application No. 11/745,615; and

**WHEREAS**, The Penn State Research Foundation, organized and existing under the laws of the State of Pennsylvania, having its principal place of business at 304 Old Main, University Park, Pennsylvania 16802 (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 therefore 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 therefore 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 owners 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.

FROM :

FAX NO. : 8148636734

Jul. 11 2007 09:15AM P2

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 Patent 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:

**GIFFORD, KRASS, SPRINKLE, ANDERSON & CITKOWSKI, P.C.**

All practitioners at Customer Number 25006

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

Date: July 11, 2007

Signature: *Susan Trolier-McKinstry*  
Susan Trolier-McKinstry

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Thomas N. Jackson

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Kyunsoo Choi

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 Patent 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.

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GIFFORD, KRASS, SPRINKLE, ANDERSON & CITKOWSKI, P.C.

All practitioners at Customer Number 25006

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

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Susan Trolier-McKinstry

Date: 7/19/07

Signature:   
Thomas N. Jackson

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Kyunsun Choi

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 Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or application 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.

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GIFFORD, KRASS, SPRINKLE, ANDERSON & CITKOWSKI, P.C.

All practitioners at Customer Number 25006

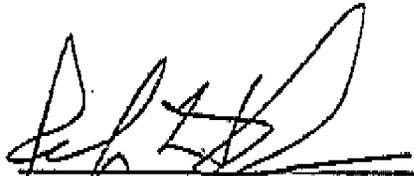
AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Susan Trolic-McKinstry

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Thomas N. Jackson

Date: 7/16/2007 Signature: \_\_\_\_\_  
Kyun Choi

Date: 7/16/07

Signature:   
Richard L. Tutwiler

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Soo Kim

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Hyun S. Kim

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Sungkyu Park

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Ioanna G. Mina

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Richard L. Tutwiler

Date: 07/16/2007 Signature: \_\_\_\_\_  
~~In Soo Kim~~ In Soo Kim

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Hyun S. Kim

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Sungkyu Park

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Jonathan G. Mina

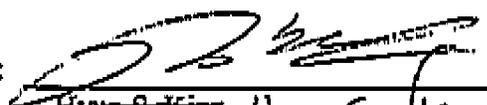
Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Richard L. Tutwiler

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Soo Kim

Date: 7/19/2007

Signature:   
Hyun S. Kim Hyun Soo Kim  
Hsk

Date: 07/19/2007

Signature:   
Sungkyu Park Sung kyu Park  
SKP

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Ioanna G. Mina

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Richard L. Tutwiler

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Soo Kim

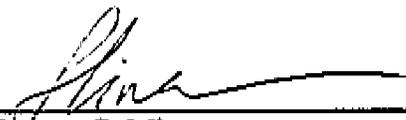
Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Hyun S. Kim

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Sungkyu Park

Date: 08/25/2007

Signature:   
Ioanna G. Mina