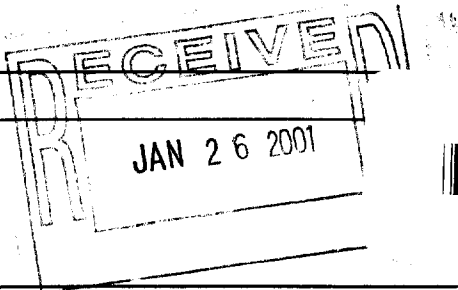


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Correspondent Name and Address		Area Code and Telephone Number	814-865-6279
Name	Thomas J. Monahan		
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Address (line 3)	113 Technology Center		
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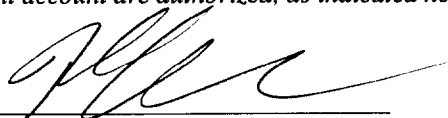
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Thomas J. Monahan (Reg. No. 29,835)
Name of Person Signing



Signature

01/25/01
Date

ASSIGNMENT

FOR VALUE RECEIVED, WE, GEORGE A. LESIEUTRE AND CHRISTOPHER L. DAVIS,

hereby sell, assign and transfer unto 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 us and disclosed and claimed in an application for Letters Patent of the United States of America, entitled:

"A TRANSDUCER HAVING A COUPLING COEFFICIENT HIGHER THAN ITS ACTIVE MATERIAL"

signed by us on the date set forth below; and in and to any and all divisions, reissues, continuations and extensions thereof; and in and to all corresponding applications for Letters Patent and all Convention and Treaty Rights of any kind, in all countries throughout the world, for all such subject matter.

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 and maintaining 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 the 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 16th day of August, 1999.

Witness: Deborah A. Mayes George A. Lesieutre
GEORGE A. LESIEUTRE

Signed at KENT, WASHINGTON, this 23rd day of AUGUST, 1999.

Witness: Anna M. Moen Christopher L. Davis
CHRISTOPHER L. DAVIS