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**RECORDATION FORM COVER SHEET
PATENTS ONLY**

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

- New
- Resubmission (Non-Recordation)
Document ID #
- Correction of PTO Error
Reel # Frame #
- Corrective Document
Reel # Frame #

Conveyance Type

- Assignment
 - License
 - Merger
 - Security Agreement
 - Change of Name
 - Other
- U.S. Government**
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 Departmental File Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached

Name (line 1)

Name (line 2)

Second Party

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Execution Date
Month Day Year

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Name (line 2)

Address (line 1)

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City State Zip Code

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate Document from Assignment)

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Name

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11/03/1998 SBURNS 00000212 161133 09040562
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**Mail documents to be recorded with required cover sheet(s) information to:
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231**

Correspondent Name and Address		Area Code and Telephone Number	814-865-6279
Name	Thomas J. Monahan		
Address (line 1)	Intellectual Property Office		
Address (line 2)	The Pennsylvania State University		
Address (line 3)	113 Technology Center		
Address (line 4)	University Park, 16802-7000		

Pages Enter the total number of pages of the attached conveyance document including any attachments

Application Numbers(s) or Patent Number(s) Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH NUMBERS FOR THE SAME PROPERTY).

Patent Application Number(s)			Patent Number(s)		
<input type="text" value="09040562"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Patent Cooperation Treaty (PCT)
 Enter PCT application number only if a U.S. Application Number has not been assigned

PCT	<input type="text"/>	PCT	<input type="text"/>	PCT	<input type="text"/>
PCT	<input type="text"/>	PCT	<input type="text"/>	PCT	<input type="text"/>

Number of Properties Enter the total number of properties involved #

Fee Amount Fee amount for Properties Listed (37 CFR 3.41) \$

Method of Payment: Enclosed Deposit Account

Deposit Account (Enter for Payment by deposit Account or if additional fees can be charged to the account.)

Deposit Account Number: #

Authorization to charge additional fees: Yes No

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. Charges to deposit account are authorized, as indicated herein.

Thomas J. Monahan (Reg. No. 29,835)
Name of Person Signing


Signature

10/20/98
Date

RECORDATION FORM COVER SHEET
CONTINUATION

PATENTS ONLY

Conveying Party(ies)

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Name (line 1)

Name (line 2)

Name (line 1)

Name (line 2)

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Execution Date
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Month Day Year

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ASSIGNMENT

FOR VALUE RECEIVED, WE, L. ERIC CROSS, QING-MING WANG AND JOSE CHIRIVELLA

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:

"PSEUDO-SHEAR MODE ACTUATOR"

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 10 day of JUNE, 1998.

Witness: Dea M. Confe

L. Eric Cross
L. Eric Cross

Signed at Lexington, Kentucky
this day of , 1998.

Witness: _____

Qing-Ming Wang

Signed at Tujunga, California
this day of , 1998.

Witness: _____

Jose Chirivella

ASSIGNMENT

FOR VALUE RECEIVED, WE, L. ERIC CROSS, QING-MING WANG AND JOSE CHIRIVELLA

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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.

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Signed at University Park, Pennsylvania
this _____ day of _____, 1998.

Witness: _____

L. Eric Cross

Signed at Lexington, Kentucky
this 15th day of June, 1998.

Witness: _____

Qing-Ming Wang

Signed at Tujunga, California
this _____ day of _____, 1998.

Witness: _____

Jose Chirivella

ASSIGNMENT

FOR VALUE RECEIVED, WE, L. ERIC CROSS, QING-MING WANG AND JOSE CHIRIVELLA

hereby sell, assign and transfer unto THE PENN STATE RESEARCH FOUNDATION

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Signed at University Park, Pennsylvania
this _____ day of _____, 1998.

Witness: _____

L. Eric Cross

Signed at Lexington, Kentucky
this _____ day of _____, 1998.

Witness: _____

Qing-Ming Wang

Signed at Tujunga, California
this 10 day of June, 1998.

Witness: Margaret H. Chirivella

Jose Chirivella
Jose Chirivella