FORM PTO-1595 (Modified) (Rev. 03-01) OMB No. 0651-0027 (exp.5/31/2002) P08/REV03



03-19-2002

Docket No.: 744-19 PCT/CON/US

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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Tab settings → → → ▼ 1020	21445	
To the Honorable Commission of atents and Trademarks:	Please record and adached original documents or copy thereof.	
1. Name of conveying party(ies):  Jiahua Zhu  11/12/01  Yicheng Lu  John Kosinski  Robert Pastoro  11/9/01  11/9/01	Name and address of receiving party(ies):     Name: Rutgers, The State University of New Jersey     Internal Address:	
Additional names(s) of conveying party(ies)		
3. Nature of conveyance:		
□ Merger     □ Merger	Street Address: 58 Bevier Road	
☐ Security Agreement ☐ Change of Name		
☐ Other	City: Piscataway State: NJ ZIP: 08854	
Execution Date. See dates above under #1.	Additional name(s) & address(es) attached?   Yes   No	
4. Application number(s) or patent numbers(s):		
If this document is being filed together with a new application,	the execution date of the application is:	
A. Patent Application No.(s)	B. Patent No.(s)	
09/873,499 Filed: 06/04/01		
Additional numbers attaction.  5. Name and address of party to whom correspondence concerning document should be mailed:	hed?   Yes   No  6. Total number of applications and patents involved:   1	
Name: Daniel A. Scola, Jr.	7. Total fee (37 CFR 3.41):\$ 40.00	
	#16	
Internal Address: Hoffmann & Baron, LLP	☑ Enclosed - Any excess or insufficiency should be credited or debited to deposit account	
	☐ Authorized to be charged to deposit account	
Street Address: 6900 Jericho Turnpike	8. Deposit account number:	
12/21/2001 TDIAZ1 00000252 09873499	08-2461	
01 FC:581 40.00 UP	(Attach duplicate copy of this page if paying by deposit account)	
City: Syosset State: MY ZIP: 11791		
9. Statement and signature.	JSE THIS SPACE	
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.		
Rohini K. Garg	November 19, 2001	
Name of Person Signing  Total number of pages including cover sh	Signature eet, attachments, and eocument:	

;7324455670

,	Assignment of Rights, (Multiple inventors; s		Docket No. 744-19 PCT/CON/US
This is an A	ssignment of the following rights, title	e and interest: (check all that apply):	
×	United States of America rights, titl	e and interest in the invention	
	Foreign rights, title and interest in t	the invention	
X	United States Patent Application Se	erial No. 09/873,499	1
	Date of Execution:	Date of Filing: June 4, 2001	Name of the last o
	United States Patent No(s).		
	International (PCT) Patent Applica	tion Serial No.	
	Other (specify)		
Title of the 1	PROGRAMMABLE SURFACE ACOUS		
nventors (a			
	Name	Address (8)	Mener St, 10B, Somerille,
Yicheng Lu		50 Jernee Drive, East Brunswick, New Jern	
John Kosin	John Kosinski 1200 Remsen Mill Road, Wall Township, New Jersey 07753		New Jersey 07753
Robert Pas	tore	132 Pin Oak Road, Freehold, New Jersey	07728
<u> </u>			
lssignee			
	Name	Address	
Rutners Ti	ne State University of New Jersey	58 Bevier Road, Piscataway, New Jersey	

[Page 1 of 3 ]

ASGUAREVOL

### Assignment of Rights, 1 itle and Interest in Invention (Multiple inventors; single assignee)

Docket No. 744-19 PCT/CON/US

Whereas, we, the above-identified Investors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignce;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits according or to account to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters
Patent which may issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful fature documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignce or its Designee(s) may from time to time require and prepate at its own expense.

Inventors' Signatures (if Notarization is desired, do not sign here and proceed to next page)

Name	Signature/Date
Jiahua Zhu	
Yicheng Lu	O(1)
John Kosinski	1 19/01
Robert Pastore	Nobert Nortere 11/9/01

Page 2 of 4

PATENT REEL: 012679 FRAME: 0321

## Assignment of Rights, 1 itle and Interest in Invention (Multiple inventors; single assignee)

Docket No. 744-19 PCT/CON/US

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignce;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said Invention to said Assignce, as assignce of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignce or its Designee(s) may from time to time require and prepare at its own expense.

Inventors' Signatures (if Notarization is desired, do not sign here and proceed to next page)

Name	Signati	ure/D <b>at</b> e
Jiahua Zhu		
Yicheng Lu	Ulas In	11/9/01
John Kosinski		
Robert Pastore		
		PATENT

[Page 2 of 4 ]

REEL: 012679 FRAME: 0322

FAX NO. 9733311700

### Assignment of Rights, 1 itle and Interest in Invention (Multiple inventors; single assignee)

Docket No. 744-19 PCT/CON/US

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignce;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filling of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters
Patent which may issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any relssue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

Inventors' Signatures (if Notarization is desired, do not sign here and proceed to next page)

Name	Signa	ture/Date
Jiahua Zhu	Jahna 3hm	11/12/01
Yicheng Lu		
John Kosinski		
Robert Pastore		
		pa p
		W

[Page 2 of 4 ]

## Assignment of Rights, 1 tile and Interest in Invention (Multiple inventors; single assignee)

Docket No.
744-19 PCT/CON/US

(172.02)	apie inventors, single i		144-171-017-017-03
<u>Notarization</u> (Although notarization is not necessary, it will be considered prima facia evidence of execution pursuant to 35 U.S.C. 261.)			
Executed this at	day of	, in the year	
State of		(Signature of Inv	rentor)
County of			
Before me personally appear who acknowledged the fore execute the same this		free act and deed and also represen	ited that he or she is authorized to
		6/3	
Executed this 9H at	day of November	, in the year 2001	olic)
State of NEW TOUSEY County of MIDDLESEX		(Signature of ins	ventor)
Before me personally appear who acknowledged the fore execute the same this	going instrument to be a f	free act and deed and also represen HY , in the year 2001	nted that he or she is authorized to
LESLYEJEANN NOTARY PUBLIC ( My Commission Ex	SE SIESM IPDCEV	Left (Nontary Pub	Joeven
Executed this IIII at	p. Jan. 23, 2005 day of Moranter	, in the year $ZCO$ (	
State of I HW TOVE	· 4'	(Signature of Inv	rentor)
County of MIDDLES	7		
Before me personally appear who acknowledged the fore execute the same this		free act and deed and also represes , in the year	sted that he or she is nuthorized to
		(Notary Pul	blic)
· <del></del>	_		

PATENT

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PAGE 02 P. 05

OCT-17-01 WED 01:58 PM HOFFMANN & BARON, LLP FAX NO. 9733311700

Assignment of Rights, Little and Intere	I # 1	
(Multiple Inventors; single ass	signee) 744-19 PCT/CON/US	
Notarization  (Although notarization is not necessary, it will be considered prima facts evidence of execution pursuant to 35 U.S.C. 261.)		
Executed this 12th day of November-	, in the year 2001 Falma 3lm	
State of	(Signature of Inventor)	
County of		
Before me personally appeared Jiahua Zhu who acknowledged the foregoing instrument to be a fre	e act and deed and also represented that he or she is authorized to	
execute the same this day of	DARLENE BEEBE NOTARY PUBLIC OF NEW JERSEY My Commission Expires March 30, 2008	
	Molary Public	
Executed this 9th, day of November	, in the year 2001	
State of New Torses  Country of MiDDLESEX	(Signature of Inventor)	
County of MIDDLESEX		
Before me personally appeared Yicheng Lu who acknowledged the foregoing instrument to be a free execute the same this III day of NVINDE	te act and deed and also represented that he or the is authorized to	
LESLYEJEANNE LOWEN NOTARY PUBLIC OF NEW JERSEY My Commission Exp. Jan. 23, 2005	Les les la North Deven	
Executed this day of at	, in the year	
State of	(Signature of Inventor)	
County of		
Before me personally appeared John Kosinski	a god god dood oned after your bod.	
execute the same this day of	e act and deed and also represented that he or she is nuthorized to , in the year	
	(Notary Public)	

PATENT

**REEL: 012679 FRAME: 0325** 

# Assignment of Rights, Title and Interest in Invention (Multiple inventors; single assignee)

Docket No. 744-19 PCT/CGN/US

Noturization  (Although notarization is not necessary, it will be considered prima facie evidence of execution pursuant to 35 U.S.C. 261.)			
Executed this	day of	, in the year	
at			
		(Signature of Inventor)	
State of		(Signature of Inventor)	
County of			
	4		
Before me personally appea who acknowledged the for execute the same this	ared Robert Pastore regoing Instrument to be a day of	a free act and deed and also represented that he or she is authorized to in the year	
		(Notary Public)	
Executed this	day of	, in the year	
at			
State of		(Signature of Inventor)	
		<del>-</del>	
County of			
Before me personally appear	ired	- Constant dual and also recognized that he are the is authorized to	
who acknowleaged the jor execute the same this	egoing instrument to be a day of	s free act and deed and also represented that he or she is authorized to in the year	
	J., C	(Notary Public)	
Executed this	day of	, in the year	
		(Signature of Inventor)	
State of			
County of			
Before me personally appea who acknowledged the for execute the same this	ared regoing instrument to be a day of	a free act and decd and also represented that he or she is authorized to in the year	
		ZALISIE DINKAT	
		(Notary Public)	

**PATENT** 

REEL: 012679 FRAME: 0326

Page 4 of 4 [

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Zhu, et al. Examiner: Unassigned

Serial No.: 09/873,499 Group Art Unit: 3662

Filed: June 4, 2001 Docket: 744-19 PCT/CON/US

For: PROGRAMMABLE SURFACE Dated: February 26, 2002

ACOUSTIC WAVE (SAW)

I hereby certify this correspondence is being deposited with the U.S. Postal Service as first class mail, postpaid in an envelope, addressed to the: Commissioner for Patents, Washington, D.C. 20231

Date: February 26, 2002

Signature: Barbara Kemmlein/

U.S. Patent and Trademark OfficeBox Assignments CG-41213 Jefferson Davis Highway, Suite 320

Washington DC 20231-0001 Attn: Lazena Martin, Examiner

FILTER

#### RESUBMISSION OF ASSIGNMENT

Madam:

Enclosed please find the original Assignment being resubmitted reflecting that the error has been corrected. The execution dates of Jiahua Zhu and Yicheng Lu have been inserted in the Assignment. Also the execution dates of each conveying party has been typed next to their names on the Assignment Cover Sheet, also attached herewith.

Respectfully submitted,

Rohini K. Garg

Registration No.: 45,272

Agent for Applicant(s)

HOFFMANN & BARON, LLP 6900 Jericho Turnpike Syosset, New York 11791 (973) 331-1700

RECORDED: 12/18/2001

PATENT REEL: 012679 FRAME: 0327