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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PART	Y DATA]		
Name			Execution Date	
Butrus T. Khuri-Yakub			05/22/2007	
Arif Sanli Ergun			05/04/2007	
G. Goksenin Yaralioglu			05/09/2007	
Yongli Huang			05/14/2007	
Sean Hansen			05/11/2007	
RECEIVING PARTY	' DATA			
Name:	The Board of	Trustees of the Leland Stanford Jun	ior University	
Street Address:	1705 El Cami	1705 El Camino Real		
City:	Palo Alto			
State/Country:	CALIFORNIA	CALIFORNIA		
Postal Code:	94306	94306		
PROPERTY NUMBI		Nu	Imber	
	r:	11707623		
Application Numbe				
CORRESPONDENC	E DATA			
CORRESPONDENC	(650)838	8-4350 <i>Mail when the fax attempt is unsucc</i> e	əssful.	
CORRESPONDENC Fax Number: <i>Correspondence wi</i> Email:	(650)838 I <i>II be sent via US</i> dhengsta	<i>Mail when the fax attempt is unsucce</i> @perkinscoie.com	əssful.	
CORRESPONDENC Fax Number: <i>Correspondence wil</i> Email: Correspondent Nam	(650)838 I <i>l be sent via US</i> dhengsta ne: Perkins	<i>Mail when the fax attempt is unsucce</i> @perkinscoie.com Coie LLP	əssful.	
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CORRESPONDENC Fax Number: <i>Correspondence wi</i> Email: Correspondent Nam Address Line 1: Address Line 4:	(650)838 Il be sent via US dhengsta ne: Perkins 101 Jeffa Menlo P	<i>Mail when the fax attempt is unsucce</i> @perkinscoie.com Coie LLP erson Drive Park, CALIFORNIA 94025	essful.	
CORRESPONDENC Fax Number: <i>Correspondence wi</i> Email: Correspondent Nam Address Line 1:	(650)838 Il be sent via US dhengsta ne: Perkins 101 Jeffa Menlo P	<i>Mail when the fax attempt is unsucce</i> @perkinscoie.com Coie LLP erson Drive	essful.	
CORRESPONDENC Fax Number: <i>Correspondence wi</i> Email: Correspondent Nam Address Line 1: Address Line 4:	(650)838 Il be sent via US dhengsta ne: Perkins 101 Jeffa Menlo P	<i>Mail when the fax attempt is unsucce</i> @perkinscoie.com Coie LLP erson Drive Park, CALIFORNIA 94025	essful.	

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ASSIGNMENT OF APPLICATION	Docket Number 60849-8029.US01
Whereas, the undersigned:	
1. KHURI-YAKUB, Butrus 2. ERGUN, Arif Sanli 3. Yaralioglu, G. Göksenin Palo Alto, CA 94306 Mountain View, CA 94043 Mountain View, CA 94043	
5. HANSEN, Sean Sunnyvale, CA 94088	
bereinafter termed "Inventors", have invented certain new and useful improvements in	
CAPACITIVE MICROMACHINED ULTRASONIC TRANSDUCER (CMUT) WITH VA	RYING THICKNESS MEMBRANE
S for which an application for United States Patent was filed on February 16, 2007, Applic	ation No. <u>11/707.623</u> .
WHEREAS, THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY laws of the State of California at Stanford, CA 94305 (hereinafter termed "Assignee"), is desirous of ac and to said application and the invention disclosed therein, and in and to all embodiments of the invention discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), a certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United S	quiring the entire right, title and interest in on, heretofore conceived, made or ad in and to any and all patents, inventor's
NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by from said Assignee:	said Inventors to have been received in full
1. Said inventors do hereby sell, assign, transfer and convey unto said Assignee the application and said invention; (b) in and to all rights to apply for foreign patents on said invention purport of Industrial Property or otherwise; (c) in and to any and all applications filed and any and a United States or any foreign country, including each and every application filed and each and every pat divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and any of said patents.	suant to the International Convention for the Il patents granted on said invention in the ent granted on any application which is a
2. Said Inventors hereby jointly and severally covenant and agree to cooperate with a cnjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign c shall include prompt production of pertinent facts and documents, giving of testimony, execution of per other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) if and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting additional applications covering said invention; (d) for filing and prosecuting applications for reissuand other priority proceedings involving said invention; and (f) for legal proceedings involving said invention; and court actions; provided, however, that the context, public use proceedings, infringement actions and court actions; provided, however, that the corroriding such cooperation shall be paid for by said Assignee. 3. The terms and covenants of this assignment shall inure to the benefit of said Assign representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and shall be binding upon said Inventors.	ountries. Such cooperation by said Inventors titions, oaths, specifications, declarations or for perfecting in said Assignee the right, title substitute, divisional, continuing or te of any said patents; (e) for interference or on and any applications therefor and any ngs, cancellation proceedings, priority spense incurred by said Inventors in gnee, its successors, assigns and other legal
 Said Inventors hereby jointly and severally warrant and represent that they have n 	-
assignment, contract, or understanding in conflict herewith.	
IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to sa	Assignce as of the dates written below:
Date: 22 May, 2007 Butrus Khuri-Yakul	25
Date: Arif Sanli Ergun	
Date:G. Göksenin Yaraliogłu	
Date:Yongli Huang	
Date: Sean Hansen	

60849-8029.US01/LEGAL13170769.1

ASSIGNMENT OF APPLICATION	Docket Number 60849-8029.US01				
Whereas, the undersigned:					
1. KHURI-YAKUB, Burtis2. ERGUN, Arif SanliPalo Alto, CA 94306Mountain View, CA 94043	 Yaralioglu, G. Göksenin Mountain View, CA 94040 HUANG, Yongli San Jose, CA 95135 				
5. HANSEN, Sean Sunnyvale, CA 94088					
hereinafter termed "Inventors", have invented certain new and useful improvements in					
CAPACITIVE MICROMACHINED ULTRASONIC TRANSDUCER (CMUT) WITH VARYING THICKNESS MEMBRANE					
S for which an application for United States Patent was filed on February 16, 2007, Application No. 11/707.623.					
WHEREAS, <u>THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY</u> , a body having corporate powers under the laws of the State of California at Stanford, CA 94305 (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.					
NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:					
1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.					
2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignce to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.					
3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.					
4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.					
IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below:					
Date:					
Date: <u>5/4/2007</u>	if Sanli Ergun				
Date:					
<u> </u>	Göksenin Yaralioglu				
Date: Ye	ongli Huang				
Date:					
Se	ean Hansen				

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ASSIGNMENT OF APPLICATION

Docket Number 60849-8029.US01

Whereas, the undersigned:

1. KHURI-YAKUB, Burtis Palo Alto, CA 94306 ERGUN, Arif Sanli Mountain View, CA 94043 3. Yaralioglu, G. Göksenin Mountain View, CA 94040 4. HUANG, Yongli San Jose, CA 95135

5. HANSEN, Sean Sunnyvale, CA 94088

hereinafter termed "Inventors", have invented certain new and useful improvements in

CAPACITIVE MICROMACHINED ULTRASONIC TRANSDUCER (CMUT) WITH VARYING THICKNESS MEMBRANE

for which an application for United States Patent was filed on <u>February 16, 2007</u>, Application No. <u>11/707,623</u>.

WHEREAS, <u>THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY</u>, a body having corporate powers under the laws of the State of California at Stanford, CA 94305 (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignce:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below:

	Burtis Khuri-Yakub
Datc:	
Date:5/9/07	Arif Sanli Ergun G. Göksenin Faralioglu
Date:	Yongli Huang
Date:	
	Sean Hansen

Date

PATENT REEL: 019363 FRAME: 0100

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 Yaralioghi, G. Gölczenin Mountais View, CA 94040 HUANG, Yongii San Jose, CA 95135 Weiments in ICER (CMUT) WITH VARYING THICKNESS MEMBRANE Echnery 16, 2007, Application No. 11/707,623. IUNING UNIVERSITY_s body having corporate powers under the assignee"), is desirous of acquiring the entire right, title and interest if embodiments of the invention, hereiofore conceived, made or termed "said invention"), and in and to any and all patents, inventor term granted in the United States and foreign countries.
Mountain View, CA 94040 San Jose, CA 95135 wements in ICER (CMUT) WITH VARYING THICKNESS MEMBRANE a Echnery 16, 2007, Application No. 11/707.623. IDJUNKOR UNIVERSITY_a body having corporate powers under the assignce"), is desirous of acquiting the entire right, title and interest if embodiments of the invention, hereiofore conceived, made or termed "said invention"), and in and to any and all patents, inventor eon granted in the United States and foreign countries.
Wemeniz in ICER (CMUT) WITH VARYING THICKNESS MEMBRANE a <u>February 16, 2007</u> , Application No. <u>11/707.623</u> . ID JUNKOR UNIVERSITY a body having corporate powers under the assignce"), is desirous of acquiring the eather right, title and interest is cumbodiments of the invention, hereiofore conceived, made or termed "said invention"), and in and to any and all patents, inventor con granted in the United States and foreign countries.
CER (CMUT) WITH VARYING THICKNESS MEMBRANE - Echnery 16, 2007, Application No. <u>11/707.623</u> . - <u>Echnery 16, 2007</u> , Application No. <u>11/707.623</u> . - <u>ECHNER UNIVERSITY</u> , s body having corporate powers under the - stignee"), is desirous of acquiring the entire right, title and interest is - embodiments of the invention, heretofore conceived, made or - termed "eaid invention"), and in and to any and all patents, inventors - eon granted in the United States and foreign countries.
CER (CMUT) WITH VARYING THICKNESS MEMBRANE - Echnery 16, 2007, Application No. <u>11/707.623</u> . - <u>Echnery 16, 2007</u> , Application No. <u>11/707.623</u> . - <u>ECHNER UNIVERSITY</u> , s body having corporate powers under the - stignee"), is desirous of acquiring the entire right, title and interest is - embodiments of the invention, heretofore conceived, made or - termed "eaid invention"), and in and to any and all patents, inventors - eon granted in the United States and foreign countries.
n <u>Feinmay 16, 2007</u> , Application No. <u>11/707,623</u> . (D. JUNKOR UNIVERSITY, a body having corporate powers under the stignee"), is desirous of acquiring the entire right, title and interest if embodiments of the invention, heretofore conceived, made or termed "said invention"), and in and to any and all patents, inventor congranted in the United States and foreign countries.
comparison of the invention, heretofore conceived, made or termed "said invention"), and is and to any and all patents, inventory con granted in the United States and foreign countries.
ideration acknowledged by said Inventors to have been received in fi
rey unto said Assignee the catire right, title and interest (a) in and to a tents on said invention pursuant to the International Convention for di- cations filed and any and all patents granted on said invention in the led and each and every patent granted on any application which is a pplications; and (d) in and to each and every reissue or extensions of
d agree to cooperate with said Assignce to enable said Assignce to inited States and foreign countries. Such cooperation by said Invento estimony, execution of petitions, oaths, specifications, declarations of able by said Assignce (a) for perfecting in said Assignce the right, thi for filing and prosecuting substitute, divisional, continuing or applications for reissuance of any said patents; (e) for interference of mgs involving said invention and any applications therefor and any ions, opposition proceedings, cancellation proceedings, priority rided, however, that the expense incurred by said Inventors in
o the benefit of said Assignce, its successors, assigns and other legal rs, legal representatives and assigns.
represent that they have not entered and will not enter into any
•
ered this instrument to said Assignee as of the dates written below:
tis Khuri-Yakub
Sanil Ergun
löksenin Yaraliogiu
di Huang

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ASSIGNMENT OF APPLICATION

Whereas, the undersigned:

- 1. KHURI-YAKUB, Burtis Palo Alto, CA 94306
- 2. ERGUN, Arif Sanli Mountain View, CA 94043
- 3. Yaralioglu, G. Göksenin Mountain View, CA 94040
- Docket Number 60849-8029.US01
 - 4. HUANG, Yongli San Jose, CA 95135

5. HANSEN, Scan Sunnyvale, CA 94088

hereinafter termed "Inventors", have invented certain new and useful improvements in

CAPACITIVE MICROMACHINED ULTRASONIC TRANSDUCER (CMUT) WITH VARYING THICKNESS MEMBRANE

for which an application for United States Patent was filed on February 16, 2007, Application No. 11/707,623.

WHEREAS, THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, a body having corporate powers under the laws of the State of California at Stanford, CA 94305 (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below:

Date:	
	Burtis Khuri-Yakub
Date:	
	Arif Sanli Ergun
Date:	
	G. Göksenin Yaralioglu
Date:	
	Yongli Huang
Date: May 11, 2007	Lean Hansen
<i>v</i>	Sean Hansen

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PATENT REEL: 019363 FRAME: 0102

RECORDED: 05/31/2007