

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hakan Urey</td> <td>04/30/2013</td> </tr> <tr> <td>Burhanettin Erdem Alca</td> <td>04/30/2013</td> </tr> <tr> <td>Erman Timurdogan</td> <td>01/07/2011</td> </tr> </tbody> </table>		Name	Execution Date	Hakan Urey	04/30/2013	Burhanettin Erdem Alca	04/30/2013	Erman Timurdogan	01/07/2011		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>KOC UNIVERSITESI</td> </tr> <tr> <td>Street Address:</td> <td>Rumeli Feneri Yolu, Sariyer</td> </tr> <tr> <td>City:</td> <td>Istanbul</td> </tr> <tr> <td>State/Country:</td> <td>TURKEY</td> </tr> <tr> <td>Postal Code:</td> <td>34450</td> </tr> </table>		Name:	KOC UNIVERSITESI	Street Address:	Rumeli Feneri Yolu, Sariyer	City:	Istanbul	State/Country:	TURKEY	Postal Code:	34450
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Street Address:	Rumeli Feneri Yolu, Sariyer										
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13882987</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13882987						
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Application Number:	13882987										
CORRESPONDENCE DATA											
Fax Number:	4082868932										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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Correspondent Name:	Amanda Nguyen										
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ATTORNEY DOCKET NUMBER:	ANKARA.KOC.PT1										
NAME OF SUBMITTER:	Amanda Nguyen										
Signature:	/Amanda Nguyen/										
Date:	08/23/2013										

OP \$40.00 13882987

Total Attachments: 8

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ASSIGNMENT

WHEREAS, I, Burhanettin Erdem Alaca, (hereinafter referred to as "ASSIGNOR"), am an inventor of application for United States Letters Patent, Application No. TBD, filed on TBD for the invention entitled "Miniaturized Integrated Micro Electro-Mechanical Systems (MEMS) Optical Sensor Array", which is a national phase of International Application No. PCT/IB2011/054000 filed on September 13, 2011;

WHEREAS, KOC UNIVERSITESI, a university existing under the laws of the country of Turkey, having its principal place of business at Rumeli Feneri Yolu, Sariyer, 34450 Istanbul, Turkey (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and to the invention and said application for Letters Patent;

NOW THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, said ASSIGNOR, has sold, assigned and set over, and by these presents does hereby sell, assign and set over unto the said ASSIGNEE, its legal representatives, successors and assigns, its entire rights, title and interest in and to said application to United States Letters Patent, and the invention disclosed, described or claimed in said application to Letters Patent, together with all divisions, reissues, continuations and extensions thereof, and any and all rights of recovery for past infringement of said application to Letters Patent.

I also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application for patent and any applications throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and

I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

I hereby further agree that I will communicate to said ASSIGNEE, or its successors, assigns and legal representatives, any facts known to me respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

April 30, 2013
Date


Name: Burhanettin Erdem Alaca

ASSIGNMENT

WHEREAS, I, Hakan Urey, (hereinafter referred to as "ASSIGNOR"), am an inventor of application for United States Letters Patent, Application No. TBD, filed on TBD for the invention entitled "Miniaturized Integrated Micro Electro-Mechanical Systems (MEMS) Optical Sensor Array", which is a national phase of International Application No. PCT/IB2011/054000 filed on September 13, 2011;

WHEREAS, KOC UNIVERSITESI, a university existing under the laws of the country of Turkey, having its principal place of business at Rumeli Feneri Yolu, Sariyer, 34450 Istanbul, Turkey (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and to the invention and said application for Letters Patent;

NOW THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, said ASSIGNOR, has sold, assigned and set over, and by these presents does hereby sell, assign and set over unto the said ASSIGNEE, its legal representatives, successors and assigns, its entire rights, title and interest in and to said application to United States Letters Patent, and the invention disclosed, described or claimed in said application to Letters Patent, together with all divisions, reissues, continuations and extensions thereof, and any and all rights of recovery for past infringement of said application to Letters Patent.

I also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application for patent and any applications throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and

I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

I hereby further agree that I will communicate to said ASSIGNEE, or its successors, assigns and legal representatives, any facts known to me respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Apr 30, 2013

Date


Name: Hakan Urey

ASSIGNMENT

WHEREAS, We, Hakan Urey and B. Erdem Alaca (hereinafter "Assignees"), are both citizens of Turkey, both residing in Istanbul, TURKEY is a Holder of rights in the invention entitled "A Miniaturized Integrated Micro Electro-Mechanical Systems (MEMS) Optical Sensor Array" filed as US Provisional Patent Application no. 61,409,111 on Nov. 1, 2010; and

WHEREAS, Koç University (Assignor), having an address of, Rumelifeneri Yolu 34450 Sarıyer Istanbul Turkey Tel: +90 212 338 1000 is desirous of acquiring the entire right, title and interest in and to said invention and any improvements thereon, and in and to said application for Letters Patent therefor, and any Letters Patent which may be obtained therefor;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that we, Assignees for and in consideration of the sum of Ten Dollars (\$10.00), lawful money of the United States, to us in hand paid by said Assignor, and other valuable considerations unto me moving from said Assignor, at or before the ensembling and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said Assignor, its successors and assigns, the entire right, title and interest in and to said invention for which we are about to make application for Letters Patent entitled "A Miniaturized Integrated Micro Electro-Mechanical Systems (MEMS) Optical Sensor Array," executed concurrently herewith, and any and all improvements thereon, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND we, said Assignees, do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States to said Assignee, and other valuable considerations unto me moving from said Assignee, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said Assignee, and other valuable considerations unto me moving from said Assignee, its successors and assigns;

AND said Assignor, for the considerations aforesaid, do hereby covenant and agree to and with said Assignee, its successors and assigns, that We have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, my executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further

HE

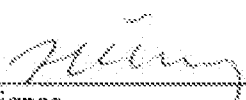


PATENT

REEL: 031074 FRAME: 0081

compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said Assignee., its successors and assigns, may be required or necessary more effectively to secure to and vest in said Assignee, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for said invention or improvements.

IN WITNESS WHEREOF, WE, said Assignees, have hereunto set our hands and seal on the date(s) below written.

Signed: 
Assignee

Printed name: Hakan Urey

Date: Dec 13, 2010

Signed: 
Assignee

Printed name: B. Erdem Alaca

Date: December 09, 2010

ASSIGNMENT

WHEREAS, We, Hakan Urey, B. Erdem Alaca and Erman Timurdogan (hereinafter "Assignees"), are both citizens of Turkey, both residing in Istanbul, TURKEY is a Holder of rights in the invention entitled "MEMS BIOSENSOR FOR PARALLEL AND HIGHLY SENSITIVE AND SPECIFIC DETECTION OF HEPATITIS" filed as US Provisional Patent Application no. 61,430,871 (to be filled in when known) on Jan. 7, 2011; and

WHEREAS, Koç University (Assignor) , having an address of Rumelifeneri Yolu 34450 Sariyer Istanbul, Turkey Tel: +90 212 338 1000 is desirous of acquiring the entire right, title and interest in and to said invention and any improvements thereon, and in and to said application for Letters Patent therefor, and any Letters Patent which may be obtained therefor;

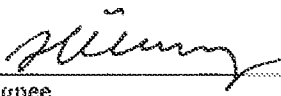
NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that we, Assignees for and in consideration of the sum of Ten Dollars (\$10.00), lawful money of the United States, to us in hand paid by said Assignor, and other valuable considerations unto me moving from said Assignor, at or before the ensealing and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said Assignor, its successors and assigns, the entire right, title and interest in and to said invention for which we are about to make application for Letters Patent entitled "MEMS BIOSENSOR FOR PARALLEL AND HIGHLY SENSITIVE AND SPECIFIC DETECTION OF HEPATITIS," executed concurrently herewith, and any and all improvements thereon, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND we, said Assignees, do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States to said Assignee, and other valuable considerations unto me moving from said Assignee, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said Assignee, and other valuable considerations unto me moving from said Assignee, its successors and assigns;

AND said Assignor, for the considerations aforesaid, do hereby covenant and agree to and with said Assignee, its successors and assigns, that We have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, my executors or administrators, shall and

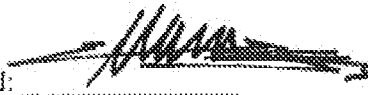
will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said Assignee., its successors and assigns, may be required or necessary more effectively to secure to and vest in said Assignee, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for said invention or improvements.

IN WITNESS WHEREOF, WE, said Assignees, have hereunto set our hands and seal on the date(s) below written.

Signed: 
Assignee

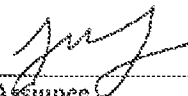
Printed name: Hakan Urey

Date: Jan 10, 2011

Signed: 
Assignee

Printed name: B. Erdem Alaca

Date: Jan. 10, 2011

Signed: 
Assignee

Printed name: Erman Timurdogan

Date: 1/7/2011



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 01, 2011

PTAS
VENABLE, CAMPILLO, LOGAN & MEANEY PC
1938 E. OSBORN RD.
PHOENIX, AZ 85016



501611715

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 07/29/2011

REEL/FRAME: 026676/0223
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: PHDL1079-003

ASSIGNOR:

UREY, HAKAN

DOC DATE: 01/10/2011

ASSIGNOR:

ALACA, B. ERDEM

DOC DATE: 01/10/2011

ASSIGNOR:

TIMURDOGAN, ERMAN

DOC DATE: 01/07/2011

ASSIGNEE:

KOC UNIVERSITY
RUMELIFENERI YOLU, SARIYER
ISTANBUL, TURKEY 34450

026676/0223 PAGE 2

APPLICATION NUMBER: 61430871 FILING DATE: 01/07/2011
PATENT NUMBER: ISSUE DATE:
TITLE: MEMS BIOSENSOR FOR PARALLEL AND HIGHLY SENSITIVE AND
SPECIFIC DETECTION OF HEPATITIS

ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION