

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT										
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hemantkumar R. Sahoo</td> <td>09/01/2009</td> </tr> <tr> <td>Klavs F. Jensen</td> <td>01/04/2010</td> </tr> </tbody> </table>		Name	Execution Date	Hemantkumar R. Sahoo	09/01/2009	Klavs F. Jensen	01/04/2010				
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<b>RECEIVING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><b>Name:</b></td> <td>Massachusetts Institute of Technology</td> </tr> <tr> <td><b>Street Address:</b></td> <td>77 Massachusetts Avenue</td> </tr> <tr> <td><b>City:</b></td> <td>Boston</td> </tr> <tr> <td><b>State/Country:</b></td> <td>MASSACHUSETTS</td> </tr> <tr> <td><b>Postal Code:</b></td> <td>02139</td> </tr> </table>		<b>Name:</b>	Massachusetts Institute of Technology	<b>Street Address:</b>	77 Massachusetts Avenue	<b>City:</b>	Boston	<b>State/Country:</b>	MASSACHUSETTS	<b>Postal Code:</b>	02139
<b>Name:</b>	Massachusetts Institute of Technology										
<b>Street Address:</b>	77 Massachusetts Avenue										
<b>City:</b>	Boston										
<b>State/Country:</b>	MASSACHUSETTS										
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<b>PROPERTY NUMBERS Total: 1</b>											
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<b>Application Number:</b>	12312348										
<b>CORRESPONDENCE DATA</b>											
<p>Fax Number: (617)646-8646</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: patents_TimO@Wolfgreenfield.com</p> <p>Correspondent Name: Wolf Greenfield &amp; Sacks, P.C.</p> <p>Address Line 1: 600 Atlantic Avenue</p> <p>Address Line 4: Boston, MASSACHUSETTS 02210</p>											
<b>ATTORNEY DOCKET NUMBER:</b>	M0925.70183US01 ASSIGNMEN										
<b>NAME OF SUBMITTER:</b>	Timothy J. Oyer										
<p><b>Total Attachments: 6</b></p> <p>source=M092570183US01-ASSIGN-TJO#page1.tif</p> <p>source=M092570183US01-ASSIGN-TJO#page2.tif</p> <p>source=M092570183US01-ASSIGN-TJO#page3.tif</p> <p>source=M092570183US01-ASSIGN-TJO#page4.tif</p> <p>source=M092570183US01-ASSIGN-TJO#page5.tif</p>											

OP \$40.00 12312348

**501069309**

**PATENT**  
**REEL: 023809 FRAME: 0839**



## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts Non-profit Corporation having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on May 6, 2009 under No. 12/312,348, bearing Attorney Docket No. M0925.70183US01, and entitled PUMPING AND FLOW CONTROL IN SYSTEMS INCLUDING MICROFLUIDIC SYSTEMS, and in and to said application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on said inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea;
2. Agree that said Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to me relating to said inventions and the history thereof, and generally by doing everything reasonably possible which said Assignee shall consider desirable for aiding in securing and maintaining proper protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee;
3. Request the Honorable Director of the United States Patent and Trademark Office to issue said Letters Patent to said Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Hemantkumar R. Sahoo

Address: 5151 Edloe Street

Apt. 11304

Houston, Texas 77005

Citizenship: India

STATE/Commonwealth of \_\_\_\_\_

County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public, personally appeared Hemantkumar R. Sahoo, proved to me through satisfactory evidence of identification, which were \_\_\_\_\_, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

1/4/2010  
Date

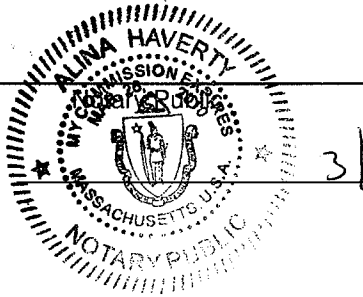
Klavs F. Jensen  
Inventor: Klavs F. Jensen  
Address: 103 Outlook Drive  
Lexington, MA 02421  
Citizenship: US

STATE/Commonwealth of MA  
COUNTY OF MIDDLESEX :

On this 4<sup>th</sup> day of JANUARY, 2010, before me, the undersigned notary public,  
personally appeared Klavs F. Jensen, proved to me through satisfactory evidence of  
identification, which were MA LICENSE,  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

My commission expires:



3/26/2010

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts Non-profit Corporation having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on May 6, 2009 under No. 12/312,348, bearing Attorney Docket No. M0925.70183US01, and entitled PUMPING AND FLOW CONTROL IN SYSTEMS INCLUDING MICROFLUIDIC SYSTEMS, and in and to said application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on said inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea;
2. Agree that said Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to me relating to said inventions and the history thereof, and generally by doing everything reasonably possible which said Assignee shall consider desirable for aiding in securing and maintaining proper protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee;
3. Request the Honorable Director of the United States Patent and Trademark Office to issue said Letters Patent to said Assignee;
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This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

9/1/2009  
Date

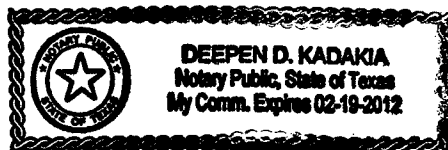
Sahoo  
Inventor: Hemantkumar R. Sahoo  
Address: 5151 Edloe Street  
Apt. 11304  
Houston, Texas 77005  
Citizenship: India

STATE/Commonwealth of TEXAS  
COUNTY OF HARRIS:

On this 1<sup>st</sup> day of SEPTEMBER, 2009, before me, the undersigned notary public, personally appeared Hemantkumar R. Sahoo, proved to me through satisfactory evidence of identification, which were TEXAS DRIVERS LICENSE, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

[Signature]  
Notary Public  
02-19-2012



\_\_\_\_\_  
Date

\_\_\_\_\_  
Inventor: Klavs F. Jensen

Address: 103 Outlook Drive

Lexington, MA 02421

Citizenship: US

STATE/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned notary public,  
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SEAL

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_