



USSN 11/514,396  
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Form PTO-1595

ERev. 6-93)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies):</p> <p>(1) James R. HEATH (2) Michael VAN DAM (3) Arkadij ELIZAROV</p> <p>Additional name(s) of conveying parties attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	<p>2. Name and address of receiving parties:</p> <p>Name: <u>CALIFORNIA INSTITUTE OF TECHNOLOGY</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>1200 E. California Blvd., M/C 201-85</u></p> <p>City: <u>Pasadena</u> State: <u>California</u></p> <p>Zip: <u>91125</u> Country: <u>U.S.A.</u></p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other:</p> <p>Execution Date: <u>October 4, 2006 by Arkadij ELIZAROV; October 6, 2006 by James R. HEATH; and October 13, 2006 by Michael VAN DAM.</u></p>	

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s): 11/514,396

B. Patent No(s):

Additional numbers attached? ☐ YES ☒ NO

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Alessandro Steinfl</u> <u>LADAS &amp; PARRY</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>5670 Wilshire Boulevard, #2100</u></p> <p>City: <u>Los Angeles</u> State: <u>CA</u> Zip: <u>90036</u></p>	<p>6. Total number of application and patents involved: <u>[ 1 ]</u></p> <p>7. Total fee 937 CFR 3.41).....\$ <u>40.00</u></p> <p><input checked="" type="checkbox"/> Enclosed</p> <p>Any additional fees which may be required are</p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>No. <u>12-0415</u></p> <p>8. Deposit account number:</p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>
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9. 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.

Alessandro Steinfl

Name of Person Signing

Reg. No. 56,448

Alessandro Steinfl  
Signature

October 20, 2006

Date

Total number of pages including cover sheet, attachments, and document: 11 plus \$40 check

Mail documents to be recorded with required cover sheet information to:

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Director of the U.S. Patent and Trademark Office

PATENT  
REEL: 018452 FRAME: 0529

For: ☒ U.S. and/or ☐ Foreign RightsFor: ☒ U.S. Application or ☐ U.S. PatentFor: ☐ PCT ApplicationBy: ☒ Inventor(s) or ☐ Present Owner**CONFIRMATORY ASSIGNMENT OF INVENTION**

For good and valuable consideration,

**ASSIGNORS:**(inventor(s) or person(s) or  
entity(ies) who own the  
invention)(1) James R. HEATH  
(type or print name(s) of ASSIGNOR(S))330 Alta Vista Ave.  
South Pasadena, CA 91030  
(Address)U.S.A.  
(Nationality)(2) Michael VAN DAM  
(type or print name(s) of ASSIGNOR(S))355 S. Madison #125  
Pasadena, CA 91101  
(Address)CANADA  
(Nationality)(2) Arkadij ELIZAROV  
(type or print name(s) of ASSIGNOR(S))12390-B Chandler Blvd.  
Valley Village, CA 91607  
(Address)RUSSIA  
(Nationality)

hereby confirm that ASSIGNORS sell, assign and transfer to

**ASSIGNEE:**CALIFORNIA INSTITUTE OF TECHNOLOGY  
(type or print name(s) of ASSIGNEE(S))1200 E. California Blvd.  
M/C 201-85  
Pasadena, CA 91125, USA  
(Address)U.S.A.  
(Nationality)

and the successors, assigns and legal representatives of the ASSIGNEE

☒ the entire right, title and interest

☐ an undivided \_\_\_\_\_ percent (\_\_\_\_\_% ) interest for the United States and its territorial possessions

(check the following box if foreign rights are also to be assigned)

☐ and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled

**"METHOD AND APPARATUS FOR THE MECHANICAL ACTUATION OF VALVES IN FLUIDIC DEVICES"**

(check and complete (a), (b), (c) or (d))

and which is found in

(a) ☐ U.S. patent application executed on even date herewith

(b) ☐ U.S. patent application executed on \_\_\_\_\_

☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney, as named in the Declaration and Power of Attorney I executed for this invention on the execution date stated above, to insert below the filing date and application number when it becomes known.

(c) ☒ U.S. Application serial no. 11/514,396 on filed August 30, 2006, which application claims the benefit of U.S. Provisional Application Nos. 60/713,835 filed on September 2, 2005, 60/765,150 filed on February 3, 2006, and 60/791,778 filed on April 13, 2006.

(d) ☐ International application no. \_\_\_\_\_

(e) ☐ U.S. Patent no. \_\_\_\_\_ issued \_\_\_\_\_

☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (F) if foreign application(s) is also being assigned)

(f) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to Letters Patent any reissue or re-examination thereof

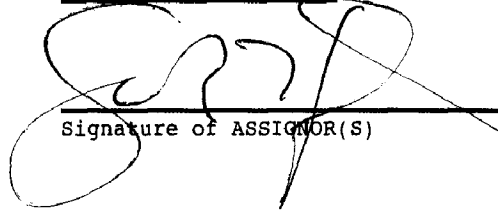
ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal  
this \_\_\_\_\_ day of \_\_\_\_\_, 2006 (date of  
signing).

Warning: Date of signing must be the same as the date of execution of the application if  
item (a) was checked above.

James R. HEATH

  
\_\_\_\_\_  
Signature of ASSIGNOR(S)

IN WITNESS WHEREOF, I/We have hereunto set hand and seal  
this 6 day of October, 2006 (date of  
signing).

Warning: Date of signing must be the same as the date of execution of the application if  
item (a) was checked above.

Michael VAN DAM

\_\_\_\_\_  
Signature of ASSIGNOR(S)

IN WITNESS WHEREOF, I/We have hereunto set hand and seal  
this \_\_\_\_\_ day of \_\_\_\_\_, 2006 (date of  
signing).

Warning: Date of signing must be the same as the date of execution of the application if  
item (a) was checked above.

Arkadij ELIZAROV

\_\_\_\_\_  
Signature of ASSIGNOR(S)

IN WITNESS WHEREOF, I/We have hereunto set hand and seal  
this \_\_\_\_\_ day of \_\_\_\_\_, 2006 (date of  
signing).

Warning: Date of signing must be the same as the date of execution of the application if  
item (a) was checked above.


James R. HEATH

\_\_\_\_\_  
Signature of ASSIGNOR(S)

IN WITNESS WHEREOF, I/We have hereunto set hand and seal  
this 13<sup>th</sup> day of OCTOBER, 2006 (date of  
signing).

Warning: Date of signing must be the same as the date of execution of the application if  
item (a) was checked above.

Michael VAN DAM

  
\_\_\_\_\_  
Signature of ASSIGNOR(S)

IN WITNESS WHEREOF, I/We have hereunto set hand and seal  
this \_\_\_\_\_ day of \_\_\_\_\_, 2006 (date of  
signing).

Warning: Date of signing must be the same as the date of execution of the application if  
item (a) was checked above.

Arkadij ELIZAROV

\_\_\_\_\_  
Signature of ASSIGNOR(S)

IN WITNESS WHEREOF, I/We have hereunto set hand and seal  
this \_\_\_\_\_ day of \_\_\_\_\_, 2006 (date of  
signing).

Warning: Date of signing must be the same as the date of execution of the application if  
item (a) was checked above.

James R. HEATH

\_\_\_\_\_  
Signature of ASSIGNOR(S)

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this \_\_\_\_\_ day of \_\_\_\_\_, 2006 (date of  
signing).

Warning: Date of signing must be the same as the date of execution of the application if  
item (a) was checked above.

Michael VAN DAM

\_\_\_\_\_  
Signature of ASSIGNOR(S)

IN WITNESS WHEREOF, I/We have hereunto set hand and seal  
this 4<sup>th</sup> day of October, 2006 (date of  
signing).

Warning: Date of signing must be the same as the date of execution of the application if  
item (a) was checked above.

Arkadij ELIZAROV

  
Signature of ASSIGNOR(S)