

05-20-2008

RE:



103503741

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

80.61.5

**1. Name of conveying party(ies)/Execution Date(s):**

MORTEZA GHARIB  
ARASH KHERADVAR

Execution Date(s) 04/04/2008; 05/08/2008

Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**

Name: CALIFORNIA INSTITUTE OF TECHNOLOGY

Internal Address: \_\_\_\_\_

Street Address: 1200 East California Blvd.

MC 201-85

City: PASADENA

State: CALIFORNIA

Country: USA Zip: 91125

Additional name(s) & address(es) attached?  Yes  No

**3. Nature of conveyance:**

- Assignment  Merger
- Security Agreement  Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other CIT042

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

This document is being filed together with a new application.

A. Patent Application No.(s)  
12/008,109

B. Patent No.(s)

Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: TOPE-MCKAY & ASSOCIATES

Internal Address: \_\_\_\_\_

Street Address: 23852 PACIFIC COAST HWY. #311

City: MALIBU

State: CA Zip: 90265

Phone Number: 310-589-8158

Fax Number: 310-919-3145

Email Address: zpoprawski@topemckay.com

**6. Total number of applications and patents involved:**

1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number \_\_\_\_\_  
Authorized User Name \_\_\_\_\_

**9. Signature:**

[Signature]  
Signature

05/13/2008  
Date

CARY TOPE-MCKAY  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

RECEIVED  
MAY 19 AM 10:50  
CORPORATE FINANCE

PATENT

REEL: 020972 FRAME: 0074

ASSIGNMENT

WHEREAS, I, Morteza Gharib of 556 S. Berkeley Ave., San Marino, CA 91108, United States of America (hereinafter "Assignor") have invented certain new and useful improvements in **IN-SITU FORMATION OF A VALVE** (hereinafter "Invention") for which an application for a United States Patent was filed on January 8, 2008, Application Ser. No. 12/008,109, and/or for which Assignors are making or have made a foreign application for intellectual or industrial property protection under the appropriate body of law corresponding to that foreign jurisdiction.

AND


WHEREAS, California Institute of Technology, a corporation organized and existing under the laws of the State of California, United States of America and having a place of business at 1200 East California Blvd., MC 201-85, Pasadena, California 91125, United States of America, (hereinafter "Assignee"), is desirous of acquiring the entire right, title, and interest in the Invention within the United States of America and its territorial possessions, and in all foreign countries in which intellectual or industrial property protection may be granted therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt whereof is hereby acknowledged, I, the Assignor desire to and do hereby assign, sell, and transfer unto Assignee the full and exclusive right to the Invention in the United States of America and its territorial possessions and in all foreign countries, as well as, the entire right, title and interest in and to any and all intellectual or industrial property rights including, but not limited to, Patents, designs, utility models, and inventor certificates which may be granted therefore in the United States of America and its territorial possessions and in all foreign countries, I hereby authorize and request the U.S. Patent Offices and the equivalent offices at foreign countries, to issue to the Assignee, any and all applicable intellectual or industrial property rights in the Invention, for the Assignee's sole use and benefit; and for the use and benefit of his legal representatives, to the full end of the term for which United States and foreign Patents or the like may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

I further covenant and agree with the Assignee that I have a full and unencumbered title to the invention hereby assigned, which title I warrant unto the Assignee, and I further agree that I will, without demanding any further consideration therefore, at the request and at the expense of the Assignee, do all lawful and just acts, including the execution and acknowledgment of instruments, that may be or become necessary for obtaining, sustaining, extending, reissuing or reexamining United States and foreign Patents or the like for the Invention, and for maintaining and perfecting the Assignee's right to the Invention and any and all intellectual or industrial property rights in it, particularly in cases of interference, conflict, opposition and litigation.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

Executed this 4th day of April, 2008,  
at Pasadena, CA 91125 (city).

  
(Signature)

Docket: CIT-4811/CIT-4901  
Attorney Docket: CIT042  
Invention Title: IN-SITU FORMATION OF A VALVE

ASSIGNMENT

WHEREAS, I, Arash Kheradvar of 48 Veranda Lane, Blythewood, SC 29015, United States of America (hereinafter "Assignor") have invented certain new and useful improvements in IN-SITU FORMATION OF A VALVE (hereinafter "Invention") for which an application for a United States Patent was filed on January 8, 2008, Application Ser. No. 12/008,109, and/or for which Assignors are making or have made a foreign application for intellectual or industrial property protection under the appropriate body of law corresponding to that foreign jurisdiction.

AND

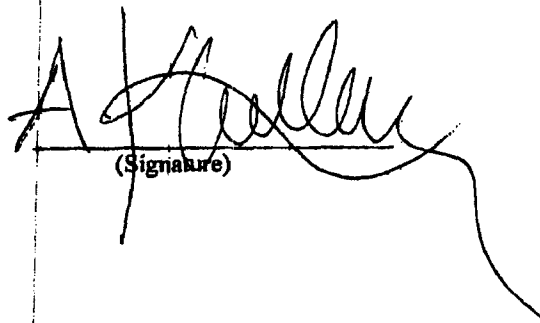
WHEREAS, California Institute of Technology, a corporation organized and existing under the laws of the State of California, United States of America and having a place of business at 1200 East California Blvd., MC 201-85, Pasadena, California 91125, United States of America, (hereinafter "Assignee"), is desirous of acquiring the entire right, title, and interest in the Invention within the United States of America and its territorial possessions, and in all foreign countries in which intellectual or industrial property protection may be granted therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt whereof is hereby acknowledged, I, the Assignor desire to and do hereby assign, sell, and transfer unto Assignee the full and exclusive right to the Invention in the United States of America and its territorial possessions and in all foreign countries, as well as, the entire right, title and interest in and to any and all intellectual or industrial property rights including, but not limited to, Patents, designs, utility models, and inventor certificates which may be granted therefor in the United States of America and its territorial possessions and in all foreign countries, I hereby authorize and request the U.S. Patent Offices and the equivalent offices at foreign countries, to issue to the Assignee, any and all applicable intellectual or industrial property rights in the Invention, for the Assignee's sole use and benefit; and for the use and benefit of his legal representatives, to the full end of the term for which United States and foreign Patents or the like may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

I further covenant and agree with the Assignee that I have a full and unencumbered title to the invention hereby assigned, which title I warrant unto the Assignee, and I further agree that I will, without demanding any further consideration therefore, at the request and at the expense of the Assignee, do all lawful and just acts, including the execution and acknowledgment of instruments, that may be or become necessary for obtaining, sustaining, extending, reissuing or reexamining United States and foreign Patents or the like for the Invention, and for maintaining and perfecting the Assignee's right to the Invention and any and all intellectual or industrial property rights in it, particularly in cases of interference, conflict, opposition and litigation.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

Executed this 08 day of May, 2008,  
at Columbia (city).



(Signature)

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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	12/008,109
Filing Date	01/08/2008
First Named Inventor	GHARIB
Group Art Unit	
Examiner Name	
Attorney Docket Number	CIT042

Total Number of Pages in This Submission

## ENCLOSURES (check all that apply)

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input checked="" type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment / Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input type="checkbox"/> Information Disclosure Statement<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Response to Missing Parts/ Incomplete Application<br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input checked="" type="checkbox"/> Assignment Papers (for an Application)<br><input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____ | <input type="checkbox"/> After Allowance Communication to Group<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input type="checkbox"/> Other Enclosure(s) (please identify below): |
| Remarks<br><br>  |  |  |

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm  
or  
Individual name

CARY TOPE-MCKAY

Signature

Date

05/13/2006

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date:

05/13/2006

Typed or printed name

CARY TOPE-MCKAY

Signature

Date

05/13/2006

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PATENT

RECORDED: 05/19/2008

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