

## PATENT ASSIGNMENT

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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>Aaron PARNES</td> <td>09/25/2012</td> </tr> <tr> <td>Matthew A. FROST</td> <td>09/25/2012</td> </tr> <tr> <td>Nitish THATTE</td> <td>01/23/2013</td> </tr> <tr> <td>Jonathan P. KING</td> <td>10/11/2012</td> </tr> </tbody> </table>		Name	Execution Date	Aaron PARNES	09/25/2012	Matthew A. FROST	09/25/2012	Nitish THATTE	01/23/2013	Jonathan P. KING	10/11/2012
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>CALIFORNIA INSTITUTE OF TECHNOLOGY</td> </tr> <tr> <td>Street Address:</td> <td>1200 E. California Blvd., M/C 210-85</td> </tr> <tr> <td>City:</td> <td>Pasadena</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>91125</td> </tr> </table>		Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY	Street Address:	1200 E. California Blvd., M/C 210-85	City:	Pasadena	State/Country:	CALIFORNIA	Postal Code:	91125
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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>13623047</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13623047						
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CORRESPONDENCE DATA											
<p>Fax Number: 6267921342</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (626) 792-0536</p> <p>Email: mail@sbpatlaw.com</p> <p>Correspondent Name: Steinfl &amp; Bruno, LLP</p> <p>Address Line 1: 155 North Lake Avenue Suite 700</p> <p>Address Line 4: Pasadena, CALIFORNIA 91101</p>											
ATTORNEY DOCKET NUMBER:	P1071-US										
NAME OF SUBMITTER:	Alessandro Steinfl										
<p>Total Attachments: 4</p> <p>source=1-P1071-US-Signed-Assignment#page1.tif</p> <p>source=1-P1071-US-Signed-Assignment#page2.tif</p> <p>source=1-P1071-US-Signed-Assignment#page3.tif</p> <p>source=1-P1071-US-Signed-Assignment#page4.tif</p>											

OP \$40.00 13623047

**ASSIGNMENT**

We, Aaron PARNES, residing in the United States with a mailing address at 1125 Westerly Terrace, Los Angeles, CA 90026,

Matthew A. FROST, residing in the United States with a mailing address at Jet Propulsion Laboratory, 4800 Oak Grove Dr., M/S 82-110, Pasadena, CA 91109,

Nitish THATTE, residing in the United States with a mailing address at 18 Crestview Drive, Kendall Park, NJ 08824, and

Jonathan P. KING, residing in the United States with a mailing address at 365 Blossom Lane, Orange Village, OH 44022,

hereby sell and assign for good and valuable consideration, the receipt of which we hereby acknowledge,

to CALIFORNIA INSTITUTE OF TECHNOLOGY, an entity having its principal place of business in the United States at 1200 E. California Blvd M/C 210-85, Pasadena, CA 91125,

hereinafter referred to as the assignee, its successors, assigns and nominees, our entire right, title and interest, including all priority rights under U.S. law and/or International conventions and treaties, in and to the "SYSTEMS AND METHODS FOR GRAVITY-INDEPENDENT GRIPPING AND DRILLING"

invented by us, as described and/or claimed in U.S. Provisional Application No. 61/536,417, filed on September 19, 2011, U.S. Provisional Application No. 61/539,377, filed on September 26, 2011, U.S. Provisional Application No. 61/599,549, filed on February 16, 2012, in the corresponding U.S. Patent Application No. 13/623,047, filed on September 19, 2012, and in any other related patent applications filed and/or to be filed not only for, to and in the United States of America its territories and possessions, but also for, to and in all other countries, including any and all divisions, reissues, continuations, continuations-in-part and extensions of said U.S. Patent Application and any and all International patent applications related to said U.S. Provisional Application No's. 61/536,417,

61/539,377, 61/599,549, and/or U.S. Patent Application No. 13/623,047, and authorize and request any officials whose duty it is to issue patents, to issue any patent on said "SYSTEMS AND METHODS FOR GRAVITY-INDEPENDENT GRIPPING AND DRILLING" and/or improvements thereof or resulting therefrom to said assignee or its successors, assigns or nominees, and agree to testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuation-in-part and/or reissue applications, make all rightful oaths and/or declarations and generally do everything possible to aid said assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in the United States of America and in all other countries.

Subscribed and executed at Pasadena USA  
 City Country  
 On 9-25-12  
 Date

Inventor Name Aaron PARNES

Inventor Signature Aaron Parnes

Witnessed by:

Witness Name: Kalind Carpenter Signature [Signature]

Witness Name: Nicholas Wilson Signature [Signature]

Subscribed and executed at Pasadena USA  
 City Country  
 On 9/25/12  
 Date

Inventor Name Matthew A. FROST

Inventor Signature Matthew A. Frost

Witnessed by:

Witness Name: Kalind Carpenter Signature [Signature]

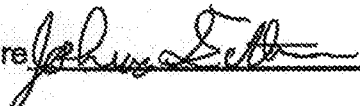
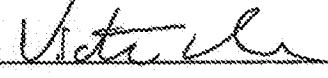
Witness Name: Nicholas Wilson Signature [Signature]

Attorney Docket No: P1071-US

Subscribed and executed at Pittsburgh United States  
City Country  
On January 23, 2013  
Date

Inventor Name: Nitish THATTEInventor Signature 

Witnessed by:

Witness Name: Joshua Gittinan Signature Witness Name: Victor Huang Signature 

Subscribed and executed at \_\_\_\_\_  
City Country  
On \_\_\_\_\_  
Date

Inventor Name: Jonathan P. KING

Inventor Signature \_\_\_\_\_

Witnessed by:

Witness Name: \_\_\_\_\_ Signature \_\_\_\_\_

Witness Name: \_\_\_\_\_ Signature \_\_\_\_\_

Subscribed and executed at \_\_\_\_\_  
City Country

On \_\_\_\_\_  
Date

Inventor Name: Nitish THATTE

Inventor Signature \_\_\_\_\_

Witnessed by:

Witness Name: \_\_\_\_\_ Signature \_\_\_\_\_

Witness Name: \_\_\_\_\_ Signature \_\_\_\_\_

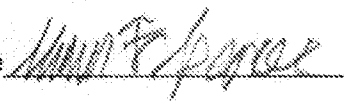
Subscribed and executed at Columbus USA  
City Country

On 10/11/2012  
Date

Inventor Name: Jonathan P. KING

Inventor Signature 

Witnessed by:

Witness Name: Shawn Spencer Signature 

Witness Name: Gloria Lawrence Signature 