

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | |
|---|-------------------------------------|---------------|----------------|---------------------|------------|------------------------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | |
| CONVEYING PARTY DATA | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Robert Arnold Judge</td> <td>11/16/2006</td> </tr> <tr> <td>Peringandoor Raman Hariharan</td> <td>11/20/2006</td> </tr> </tbody> </table> | | Name | Execution Date | Robert Arnold Judge | 11/16/2006 | Peringandoor Raman Hariharan | 11/20/2006 |
| Name | Execution Date | | | | | | |
| Robert Arnold Judge | 11/16/2006 | | | | | | |
| Peringandoor Raman Hariharan | 11/20/2006 | | | | | | |
| RECEIVING PARTY DATA | | | | | | | |
| Name: | HYDRIL COMPANY LP | | | | | | |
| Street Address: | 3300 North Sam Houston Parkway East | | | | | | |
| City: | Houston | | | | | | |
| State/Country: | TEXAS | | | | | | |
| Postal Code: | 77032 | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11077172</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 11077172 | | |
| Property Type | Number | | | | | | |
| Application Number: | 11077172 | | | | | | |
| CORRESPONDENCE DATA | | | | | | | |
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| ATTORNEY DOCKET NUMBER: | 9430.303001 | | | | | | |
| NAME OF SUBMITTER: | Michelle Hayden | | | | | | |
| Total Attachments: 3 source=09430303001-assgnmt_20061205142139#page1.tif source=09430303001-assgnmt_20061205142139#page2.tif source=09430303001-assgnmt_20061205142139#page3.tif | | | | | | | |

OP \$40.00 11077172

ASSIGNMENT – WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned individual(s) (referred to herein as the "INVENTOR(S)") hereby assign, transfer, and set over to:

HYDRIL COMPANY LP

having the following address:

3300 N. Sam Houston Parkway East, Houston, Texas 77032

(referred to herein as "COMPANY"), its successors, and assigns, the entire right, title, and interest, worldwide, in and to the invention known by the following title:

PRESSURE DRIVEN PUMPING SYSTEM,

for which the undersigned has/have executed an application for patent in the United States of America on or about this same day, together with said patent application, all divisions, continuations, continuations-in-part, reissues, and extensions thereof, and all Letters Patent (domestic and foreign) that may be granted therefor. Such interest represents the entire ownership of said applications and Letters Patent when granted and is to be owned by COMPANY, its successors, and assigns, or their legal representatives, for the full and entire term for which such Letters Patent may be granted or extended, as fully and entirely as the same would have been enjoyed by the INVENTOR(S) if this assignment had not been made.

In addition, the undersigned INVENTOR(S) each hereby agrees:

1. To sign and execute any further documents that may be necessary or desirable, lawful, and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States, including without limitation said application and all divisions, continuations, continuations-in-part, amendments thereof, and all interference proceedings associated therewith, or otherwise necessary or desirable to secure the title thereto to COMPANY;
2. To execute all papers and documents and to perform all lawful acts that may be necessary in connection with claims to priority or otherwise under the International Convention for the Protection of Industrial Property or similar treaties or agreements;
3. To perform all lawful affirmative acts that may be necessary to obtain the grant of valid and enforceable patents to COMPANY.

The undersigned INVENTOR(S) each hereby authorizes and requests the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patent resulting from said application, including without limitation any division, continuation, continuation-in-part, or reissue thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to the firm of OSHA-LIANG LLP the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

16 Nov. 2006 1st Inventor Signature: [Signature]
 Date Print or Type Name: Robert Arnold Judge

 Date 2nd Inventor Signature: _____
 Print or Type Name: Peringandoor Raman Hariharan

 Date 3rd Inventor Signature: _____
 Print or Type Name: _____

 Date 4th Inventor Signature: _____
 Print or Type Name: _____

This Assignment may be signed before either:
(a) a Notary Public for one of the States of the United States, or (b) two witnesses who sign below:

NOTARY PUBLIC

State of Texas
 County of Tarrant

Before me personally appeared: Robert Arnold Judge Peringandoor Raman Hariharan
1st Inventor 2nd Inventor

3rd Inventor 4th Inventor

each of whom acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: 11/16/06 [Signature]
Notary Public My commission expires: 2/17/2010



WITNESSES

Signature of Witness: _____
 Date Print or Type Name: _____

Signature of Witness: _____
 Date Print or Type Name: _____

191356_1

When this Assignment is not filed concurrently with the patent application, the following identifying information may be added after execution:

U.S. Application Serial No.: 11/077,172
 Filing Date: March 10, 2005

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

 Date
11/20/06
 Date

1st Inventor Signature: _____
 Print or Type Name: Robert Arnold Judge

2nd Inventor Signature: _____
 Print or Type Name: Peringandoor Raman Hariharan

3rd Inventor Signature: _____
 Print or Type Name: _____

4th Inventor Signature: _____
 Print or Type Name: _____

This Assignment may be signed before either:
 (a) a Notary Public for one of the States of the United States, or (b) two witnesses who sign below:


NOTARY PUBLIC

State of TEXAS
 County of Harris

Before me personally appeared: Robert Arnold Judge Peringandoor Raman Hariharan
1st Inventor 2nd Inventor

3rd Inventor 4th Inventor

each of whom acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: 11-20-06  Robert Lopez
 My commission expires: 02-25-2010

WITNESSES

Signature of Witness: _____
 Date _____ Print or Type Name: _____

Signature of Witness: _____
 Date _____ Print or Type Name: _____

191356_1

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