

**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>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Dingding Chen</td> <td>04/29/2008</td> </tr> <tr> <td>Allan Zhong</td> <td>04/29/2008</td> </tr> <tr> <td>Syed Hamid</td> <td>05/01/2008</td> </tr> <tr> <td>Stanley Stephenson</td> <td>05/02/2008</td> </tr> </tbody> </table>		Name	Execution Date	Dingding Chen	04/29/2008	Allan Zhong	04/29/2008	Syed Hamid	05/01/2008	Stanley Stephenson	05/02/2008
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Dingding Chen	04/29/2008										
Allan Zhong	04/29/2008										
Syed Hamid	05/01/2008										
Stanley Stephenson	05/02/2008										
<b>RECEIVING PARTY DATA</b>											
<b>Name:</b>	Halliburton Energy Services, Inc.										
<b>Street Address:</b>	10200 Bellaire Boulevard										
<b>City:</b>	Houston										
<b>State/Country:</b>	TEXAS										
<b>Postal Code:</b>	77072										
<b>PROPERTY NUMBERS Total: 1</b>											
<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>12048045</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12048045						
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Application Number:	12048045										
<b>CORRESPONDENCE DATA</b>											
<b>Fax Number:</b>	(972)418-3877										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
<b>Phone:</b>	972-418-3892										
<b>Email:</b>	ruthine.liebman@halliburton.com										
<b>Correspondent Name:</b>	Halliburton Energy Services, Inc.										
<b>Address Line 1:</b>	2601 Beltline Road										
<b>Address Line 2:</b>	1-B-121										
<b>Address Line 4:</b>	Carrollton, TEXAS 75006										
<b>ATTORNEY DOCKET NUMBER:</b>	2007-IP-023316 U1 US										
<b>NAME OF SUBMITTER:</b>	Ruthine Liebman										
Total Attachments: 5											

**CH \$40.00 12048045**

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**ASSIGNMENT**

IN CONSIDERATION OF TEN DOLLARS (\$10.00) cash in hand paid to me by HALLIBURTON ENERGY SERVICES, INC., and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, **Dingding Chen, Allan Zhong, Syed Hamid and Stanley Stephenson**, having made an invention in a **“Neural-Network Based Surrogate Model Construction Methods and Applications Thereof”** while in the employ of HALLIBURTON ENERGY SERVICES, INC., a corporation organized and existing under the laws of the State of Delaware, doing business at 10200 Bellaire Boulevard, Houston, Texas 77072, (sometimes hereinafter called “ASSIGNEE”), do hereby ASSIGN, SELL and CONVEY to said ASSIGNEE, its successors and assigns, the entire right, title and interest throughout the world in and to:

1. Said invention in a **“Neural-Network Based Surrogate Model Construction Methods and Applications Thereof”**;

2. United States of America patent application on said invention, Attorney File No.2007-IP-023316 U1 U.S. Serial No. 12/048,045, filed **March 13, 2008** executed by us, entitled **“Neural-Network Based Surrogate Model Construction Methods and Applications Thereof”**;

3. All applications for patent or like protection on said invention that have now been or may in the future be made by us or our legal representatives, whether in the United States of America or any other place anywhere in the world;

4. All patents and like protection that have now been or may in the future be granted on said invention to us or our legal representatives, whether in the United States of America or in any other country or place anywhere in the world;


5. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of said applications and patents and like grants, including without limitations, those obtained or permissible under past, present and future law and statutes;

6. All rights of action on account of past, present and future unauthorized use of said invention for infringement of said patents and like protection;

7. The right to ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and

8. All international rights of priority associated with said invention, applications, patents and like protection; and we covenant that we, our heirs, legal representatives, assigns, administrators, and executors will at the expense of ASSIGNEE, its successors and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors and assigns, the full benefit of this Assignment.

EXECUTED at Dallas County, Texas, on the 29<sup>th</sup> day of April, 2008.

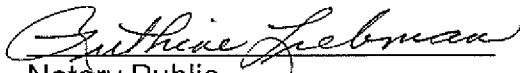
  
Dingding Chen

STATE OF TEXAS §  
  §  
COUNTY OF DALLAS §

BEFORE ME, the undersigned authority, on this day personally appeared **Dingding Chen** known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 29<sup>th</sup> day of April, 2008.




  
Notary Public

[SEAL]

My Commission Expires:

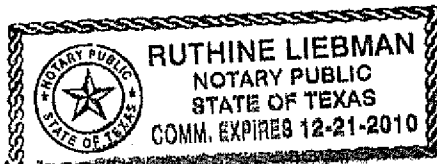
EXECUTED at Dallas County, Texas, on the 29th day  
of April, 2008.

  
Allan Zhong

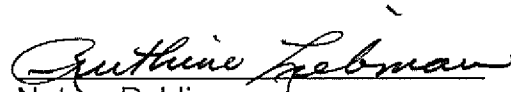
STATE OF TEXAS §  
  §  
COUNTY OF DALLAS §

BEFORE ME, the undersigned authority, on this day personally appeared **Allan Zhong** known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 29th  
day of April, 2008.



[SEAL]

  
Notary Public

My Commission Expires:

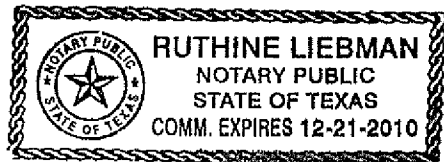
EXECUTED at Dallas County, Texas, on the 1<sup>st</sup> day of May, 2008.

Syed Hamid  
Syed Hamid

STATE OF TEXAS §  
  §  
COUNTY OF DALLAS §

BEFORE ME, the undersigned authority, on this day personally appeared **Syed Hamid**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 1<sup>st</sup> day of May, 2008.

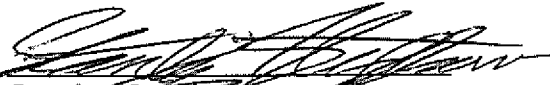


Ruthine Liebman  
Notary Public

[SEAL]

My Commission Expires:

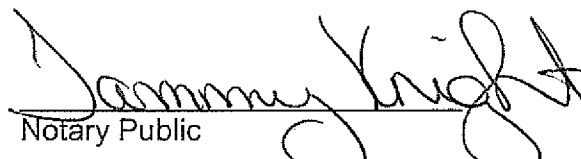
EXECUTED at Stephens County, Oklahoma, on the 2<sup>nd</sup> day of May, 2008.

  
Stanley Stephenson

STATE OF OKLAHOMA §  
   §  
COUNTY OF STEPHENS §

BEFORE ME, the undersigned authority, on this day personally appeared **Stanley Stephenson** known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 2<sup>nd</sup> day of MAY, 2008.

  
Notary Public  
#02002595

[SEAL]

My Commission Expires: 2-13-2010