

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>Roger Glen Duncan</td> <td>10/25/2011</td> </tr> <tr> <td>Alexander M. Barry</td> <td>12/05/2011</td> </tr> <tr> <td>Brooks A. Childers</td> <td>10/25/2011</td> </tr> <tr> <td>Robert M. Harman</td> <td>10/18/2011</td> </tr> <tr> <td>Philip Robin Couch</td> <td>11/04/2011</td> </tr> </tbody> </table>		Name	Execution Date	Roger Glen Duncan	10/25/2011	Alexander M. Barry	12/05/2011	Brooks A. Childers	10/25/2011	Robert M. Harman	10/18/2011	Philip Robin Couch	11/04/2011
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RECEIVING PARTY DATA													
Name:	Baker Hughes Incorporated												
Street Address:	2929 Allen Parkway												
Internal Address:	Suite 2100												
City:	Houston,												
State/Country:	TEXAS												
Postal Code:	77019-2118												
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>13271683</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13271683								
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Application Number:	13271683												
CORRESPONDENCE DATA													
Fax Number:	(860)286-0115												
Phone:	860-286-2929												
Email:	usptopatentmail@cantorcolburn.com												
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
Correspondent Name:	CANTOR COLBURN LLP- BAKER HUGHES INCORPO												
Address Line 1:	20 Church Street												
Address Line 2:	22nd Floor												
Address Line 4:	Hartford, CONNECTICUT 06103												
ATTORNEY DOCKET NUMBER:	OPS4-52056-US/OSY0057US												

OP \$40.00 13271683

NAME OF SUBMITTER:

Thomas J. Ryan

Total Attachments: 6

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PATENT APPLICATION ASSIGNMENT

WHEREAS, WE, Roger Glen Duncan a citizen of the United States, residing at 345 Silver Leaf Drive, Christiansburg, VA, 24073; Alexander M. Barry, a citizen of the United States, residing at 6064 Steeplechase Drive, Roanoke VA, 24018; Brooks A. Childers a citizen of the United States, residing at 1425 Red Hawk Run, Christiansburg, VA, 24073; Robert M. Harman, a citizen of the United States, residing at 898 Shawnee Trail, Troutville, VA, 24175; and Philip Robin Couch a citizen of the United Kingdom, residing at Cotleigh Court, Cotleigh, Honiton, Devon, EX14 9HG, UK have invented new and useful improvements in ENHANCING FUNCTIONALITY OF REFLECTOMETRY BASED SYSTEMS USING PARALLEL MIXING OPERATIONS for which we have filed as United States Patent Application 13/271,683 on October 12, 2011;

WHEREAS, Baker Hughes Incorporated, a corporation of the State of Delaware, having a correspondence address of 2929 Allen Parkway, Suite 2100, Houston, Texas 77019-2118, is desirous of acquiring our entire right, title and interest in said application and our Letters Patent which may issue thereon.

NOW, THEREFORE, it be known by all whom it may concern that for and in consideration of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and other good and valuable consideration, We hereby assign to said corporation, both in and for the territory of the United States of America and the entire world, all our title and interest in and to said invention, patent application and any patent which may issue thereon, including all divisions, continuations, reissues, continuations-in-part and substitutions thereof, plus all priority rights for patent applications foreign to the United States of America. We further hereby assign and transfer to said corporation whatever cause of action We may have for past or present infringement of said invention, together with the right to bring suit for any such infringement and to seek and receive damages and other relief arising from any such infringement.

WE HEREBY covenant and agree that We will at any time, upon the request of said corporation, execute and deliver any and all papers and do all lawful acts that may be necessary or desirable to perfect the title to said invention, applications and patents, and We authorize the Commissioner of Patents and Trademarks to issue Letters patent to said corporation.

Inventor 1

[Signature] Date: 10/25/11
Roger Glen Duncan

STATE OF VIRGINIA
COUNTY OF MONTGOMERY SS.

This 25th day of OCTOBER, 2011 before me personally came the above-named **Roger Glen Duncan**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Sedl  *Freda Pruitt Hubert*
(Notary Public)

Inventor 2



Date: 5 Dec 2011

Alexander M. Barry

STATE OF *Virginia*

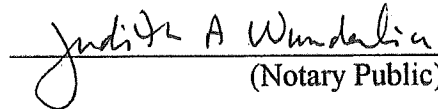
ss.

COUNTY OF *Montgomery*

This 5 day of December, 2011 before me personally came the above-named **Alexander M. Barry**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

Commonwealth of Virginia
Judith A. Wunderlich - Notary Public
Commission ID: 350363
My Commission Expires 07/31/2012



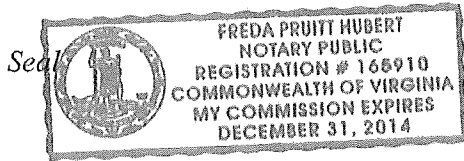
(Notary Public)

Inventor 3

Brooks Childers Date: 10/25/2011
Brooks A. Childers

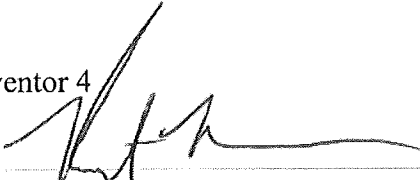
STATE OF Virginia
COUNTY OF Montgomery ss.

This 25th day of OCTOBER, 2011 before me personally came the above-named **Brooks A. Childers**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.



Freda Pruitt Hubert
(Notary Public)

Inventor 4



Robert M. Harman

Date:

10/18/11


STATE OF VIRGINIA

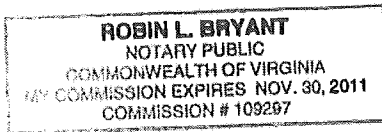
SS.

COUNTY OF BOTETOURT

This 18 day of OCT, 2011 before me personally came the above-named **Robert M. Harman**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal


(Notary Public)



Inventor 5


Philip Robin Couch

Date: 4th November 2011


STATE OF

ss.

COUNTY OF

This 4th day of November, 2011 before me personally came the above-named **Philip Robin Couch**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal


(Notary Public/Witness)