

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Ronald G. EARLES	12/04/2008
Barry D. CALNAN	12/01/2008
Randy C. IVEY	12/01/2008
RECEIVING PARTY DATA	
Name:	HALLIBURTON ENERGY SERVICES, INC.
Street Address:	10200 Bellaire Boulevard
City:	Houston
State/Country:	TEXAS
Postal Code:	77072-5299
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	60992231
PCT Number:	US0885254
CORRESPONDENCE DATA	
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Address Line 4:	Austin, TEXAS 78701
ATTORNEY DOCKET NUMBER:	074263.0494
NAME OF SUBMITTER:	Michael J. Wasaff

CH \$80.00 60992231

Total Attachments: 3
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**PATENT
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074263.0494

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FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to Halliburton Energy Services, Inc. (hereinafter referred to as "Assignee"), a Delaware Corporation, with an address of 10200 Bellaire Boulevard, Houston, Texas 77072-5299, USA, the/their entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the International application for Letters Patent, and is entitled "APPARATUS AND METHODS TO OPTIMIZE FLUID FLOW AND PERFORMANCE OF DOWNHOLE DRILLING EQUIPMENT," including and claiming priority to US Provisional Application No. 60/992,231 and the PCT Application entitled "APPARATUS AND METHODS TO OPTIMIZE FLUID FLOW AND PERFORMANCE OF DOWNHOLE DRILLING EQUIPMENT," such applications and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Title of Invention: **APPARATUS AND METHODS TO OPTIMIZE FLUID FLOW AND PERFORMANCE OF DOWNHOLE DRILLING EQUIPMENT**

Applications: US Provisional Application No. 60/992,231 December 4, 2007

Signature of Joint Inventor:
Inventor's Name:



Ronald G. EARLES

Residence (City, Country)

Houston, U.S.A.

Date:



12/04/08

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Title of Invention: APPARATUS AND METHODS TO OPTIMIZE FLUID FLOW AND
PERFORMANCE OF DOWNHOLE DRILLING EQUIPMENT

Applications: US Provisional Application No. 60/992,231 December 4, 2007

Signature of Joint Inventor:
Inventor's Name:


Barry D. CALNAN

Residence (City, Country)

Conroe, U.S.A.

Date:

12/1/08

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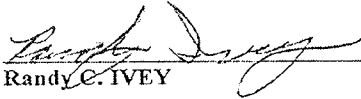
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Title of Invention: **APPARATUS AND METHODS TO OPTIMIZE FLUID FLOW AND
PERFORMANCE OF DOWNHOLE DRILLING EQUIPMENT**

Applications: US Provisional Application No. 60/992,231 December 4, 2007

Signature of Joint Inventor:
Inventor's Name:


Randy C. IVEY

Residence (City, Country)

Spring, U.S.A.

Date:

12/1/08