PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:		NEW ASSIGNMENT					
NATURE OF CONVEYANCE:		ASSIGNMENT					
CONVEYING PARTY DATA							
N			ame	Execution Date			
Tuck Leong Ho				10/23/2006			
RECEIVING PARTY DATA							
Name:	Halliburton Energy Services, Inc.						
Street Address:	10200 Bellaire Boulevard						
City:	Houston						
State/Country:	TEXAS						
Postal Code:	77072						
PROPERTY NUMBERS Total: 1							
Property Type			Number				
Application Number:		13285	5653				
Application Number: 13285653 59 CORRESPONDENCE DATA 50							
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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.							
Correspondent Name: BAKER BOTTS L.L.P. PATENT DEPARTMENT							
			TO BLVD., SUITE 1500				
Address Line 4: AUSTIN, TEXAS 78701-4039							
ATTORNEY DOCKET NUMBER:		074263.0689					
NAME OF SUBMITTER:		Crystle Garbade					
Total Attachments: 3 source=074263-0689-HoAssignment#page1.tif source=074263-0689-HoAssignment#page2.tif source=074263-0689-HoAssignment#page3.tif							

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WHEREAS, I, the undersigned joint inventor of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, said application having been executed; and

WHEREAS, Halliburton Energy Services, Inc. (hereinafter referred to as "Assignee"), a Delaware Corporation, with an address of 10200 Bellaire Boulevard, Houston, Texas 77072, desires to acquire my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I assign to Assignee, all right, title and interest in and to said invention and also in U.S. Provisional Patent Application Serial No. 60/710,452 filed August 23, 2005 entitled *Rotary Drill Bit with Nozzles designed to Enhance Hydraulic Performance and Drilling Fluid Efficiency* and in and to said regular utility U.S. Nonprovisional Application Serial No. 11/466,252 filed August 22, 2006 entitled *Rotary Drill Bit with Nozzles designed to Enhance Hydraulic Performance and Drilling Fluid Efficiency* and all patents which may be granted therefor, and all divisions, reissues, continuations, continuations-in-part and extensions thereof; and I hereby authorize and request the United States Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to Assignee.

This assignment including said application, any and all United States and foreign patents, utility models, design registrations, inventor's certificates and other similar rights granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name, or in its own name, for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for myself and my heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as AUS01:439821.1

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ASSIGNMENT 2 of 3

the Assignee may reasonably request to effectuate fully this assignment; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

I will communicate to Assignee any facts known to me respecting any improvements; and, I will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

Assignment of:

- 1. U.S. Provisional Patent Application Serial No. 60/710,452 filed August 23, 2005 entitled *Rotary Drill Bit with Nozzles designed to Enhance Hydraulic Performance and Drilling Fluid Efficiency*; and
- 2. U.S. Nonprovisional Application Serial No. 11/466,252 filed August 22, 2006 entitled Rotary Drill Bit with Nozzles designed to Enhance Hydraulic Performance and Drilling Fluid Efficiency

Full name of joint inventor	Ephraim J. Gutmark
Inventor's Signature	
Date	
Residence (City, County, State)	CINCINNATI, HAMILTON COUNTY, OHIO
Citizenship	UNITED STATES
Post Office Address	5055 Rollman Estates Drive Cincinnati, OH 45236

ATTORNEY DOCKET NO. 074263.0318 (SD-00-008)

ASSIGNMENT 3 of 3

Assignment of:

- 1. U.S. Provisional Patent Application Serial No. 60/710,452 filed August 23, 2005 entitled *Rotary Drill Bit with Nozzles designed to Enhance Hydraulic Performance and Drilling Fluid Efficiency*; and
- 2. U.S. Nonprovisional Application Serial No. 11/466,252 filed August 22, 2006 entitled Rotary Drill Bit with Nozzles designed to Enhance Hydraulic Performance and Drilling Fluid Efficiency

Full name of joint inventor	TUCK LEONG HO
Inventor's Signature	Mullmy
Date	Oct. 23 2006
Residence (City, County, State)	FERNWOOD FOREST, HARRIS COUNTY, TEXAS
Citizenship	MALAYSIA
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