

**PATENT ASSIGNMENT**

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Nuno Da Silva	03/30/2007
Valerie Sillen	04/04/2007
Nicolas Luyckx	03/27/2007
<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>	
<b>Property Type</b>	<b>Number</b>
Application Number:	11687472
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	074263.0412
<b>NAME OF SUBMITTER:</b>	Chris Ledel

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Total Attachments: 4  
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## ASSIGNMENT

**WHEREAS**, I, the undersigned joint inventor of residence as listed, having invented certain new and useful improvements, for which application for United States Letters Patent was filed on March 16, 2007 under Serial No. 11/687,472, entitled *Matrix Drill Bits With Back Raked Cutting Elements*; 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 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 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.

ATTORNEY DOCKET NO.  
074263.0412  
(SD-06-001)

PATENT APPLICATION  
USSN 11/687,472

2 of 4

Title of Invention: *Matrix Drill Bits With Back Raked Cutting Elements*

Full name of joint inventor	<b>Nuno Da Silva</b>
Inventor's Signature	<u></u>
Date	<u>March 30, 2007</u>
Residence (City, Country)	<b>Brussels, Belgium</b>
Citizenship	<u>Belgian</u>
Post Office Address	<b>Rue du Bien Faire 10 1170 Brussels, Belgium</b>

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ATTORNEY DOCKET NO.  
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PATENT APPLICATION  
USSN 11/687,472

3 of 4

Title of Invention: *Matrix Drill Bits With Back Raked Cutting Elements*

Full name of joint inventor	<b>Valérie Sillen</b>
Inventor's Signature	<u>V. Sillen</u>
Date	<u>4 april 07</u>
Residence (City, Country)	<b>Forest, Belgium</b>
Citizenship	<i>Belgian</i>
Post Office Address	<b>Av Kersbeek 42 1190 Forest, Belgium</b>

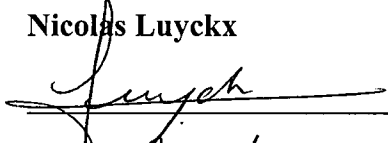
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ATTORNEY DOCKET NO.  
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(SD-06-001)

PATENT APPLICATION  
USSN 11/687,472

4 of 4

Title of Invention: *Matrix Drill Bits With Back Raked Cutting Elements*

Full name of joint inventor	<b>Nicolas Luyckx</b>
Inventor's Signature	 _____
Date	<i>March 27, 2007</i> _____
Residence (City, Country)	<b>Mons, Belgium</b>
Citizenship	<i>Belgium</i>
Post Office Address	<b>Rue du Premier Chasseur à Cheval, 16A bte8 7000 Mons, Belgium</b>

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REEL: 019145 FRAME: 0477