

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<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>Nuno Da Silva</td> <td>03/30/2007</td> </tr> <tr> <td>Valerie Sillen</td> <td>04/04/2007</td> </tr> <tr> <td>Nicolas Luyckx</td> <td>03/27/2007</td> </tr> </tbody> </table>		Name	Execution Date	Nuno Da Silva	03/30/2007	Valerie Sillen	04/04/2007	Nicolas Luyckx	03/27/2007
Name	Execution Date								
Nuno Da Silva	03/30/2007								
Valerie Sillen	04/04/2007								
Nicolas Luyckx	03/27/2007								
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									
<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>11687472</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11687472				
Property Type	Number								
Application Number:	11687472								
CORRESPONDENCE DATA									
Fax Number:	(512)322-8383								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	5123222601								
Email:	apatent@bakerbotts.com								
Correspondent Name:	Baker Botts L.L.P.								
Address Line 1:	Luke Pedersen (074263.0412)								
Address Line 2:	98 San Jacinto Blvd.Ste.1500								
Address Line 4:	Austin, TEXAS 78701-4039								
ATTORNEY DOCKET NUMBER:	074263.0412								
NAME OF SUBMITTER:	Chris Ledel								

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

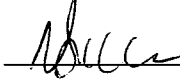
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Title of Invention: *Matrix Drill Bits With Back Raked Cutting Elements*

Full name of joint inventor

Nuno Da Silva

Inventor's Signature



Date

March 30, 2007

Residence (City, Country)

Brussels, Belgium

Citizenship

Belgian

Post Office Address

**Rue du Bien Faire 10
1170 Brussels, Belgium**

ATTORNEY DOCKET NO.
074263.0412
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PATENT APPLICATION
USSN 11/687,472

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

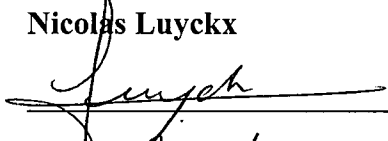
Full name of joint inventor	Valérie Sillen
Inventor's Signature	<u>V. Sillen</u>
Date	<u>4 april 07</u>
Residence (City, Country)	Forest, Belgium
Citizenship	<u>Belgian</u>
Post Office Address	Av Kersbeek 42 1190 Forest, Belgium

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

PATENT APPLICATION
USSN 11/687,472

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

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

AUS01:455955

RECORDED: 04/11/2007

PATENT
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