

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Shilin Chen	02/07/2005
James S. Dahlem	02/07/2005
RECEIVING PARTY DATA	
Name:	Halliburton Energy Services, Inc.
Street Address:	2601 Beltline Road
City:	Carrollton
State/Country:	TEXAS
Postal Code:	75006
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	11054395
CORRESPONDENCE DATA	
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
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Correspondent Name:	Baker Botts L.L.P.
Address Line 1:	Thomas R. Felger (074263.0217)
Address Line 2:	98 San Jacinto Blvd., Suite 1500
Address Line 4:	Austin, TEXAS 78701-4039
NAME OF SUBMITTER:	Angela D. Loding
Total Attachments: 2	
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CH 11054395 \$40.00

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PATENT
REEL: 015973 FRAME: 0704

ASSIGNMENT

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 2601 Beltline Road, Carrollton, Texas, 75006, 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 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 in and to said application 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.

ATTORNEY DOCKET NO.
074263.0217
(SC-02-005)

PATENT ASSIGNMENT

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.

Title: *Roller Cone Drill Bits with Enhanced Cutting Elements and Cutting Structures*

Full name of first joint inventor:

Shilin Chen

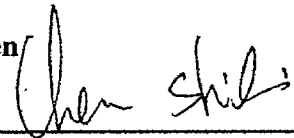
Inventor's signature

Date

Residence (City, County, State)

Citizenship

Post Office Address



2-7-05

The Woodlands, Montgomery County,
Texas

Chinese (PR China)

34 W. Prairie Dawn Circle
The Woodlands, Texas 77385

Full name of second joint inventor:

James S. Dahlem

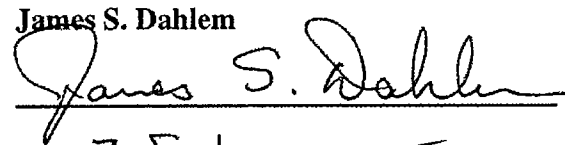
Inventor's signature

Date

Residence (City, County, State)

Citizenship

Post Office Address



7 Feb 2005

Midlothian, Ellis County, Texas

United States of America

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Midlothian, Texas 76065