PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Amardeep Singh	06/05/2000
Quan Van Nguyen	06/05/2000
Sujian Huang	06/05/2000

RECEIVING PARTY DATA

Name:	Smith International, Inc.	
Street Address:	16740 Hardy Street	
City:	Houston	
State/Country:	TEXAS	
Postal Code:	77032	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11442520

CORRESPONDENCE DATA

(713)238-8008 Fax Number:

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

713-238-8000 Phone:

eskaggs@conleyrose.com Email:

Correspondent Name: Collin A. Rose Address Line 1: P.O. Box 3267

Address Line 4: Houston, TEXAS 77253-3267

ATTORNEY DOCKET NUMBER:	1030-20005
NAME OF SUBMITTER:	Collin A. Rose

Total Attachments: 3

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ASSIGNMENT

IN CONSIDERATION OF TEN DOLLARS (\$10.00) cash in hand paid to us by SMITH INTERNATIONAL, INC., and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we, AMARDEEP SINGH, QUAN VAN NGUYEN, and SUJIAN HUANG ("ASSIGNORS"), having made an invention in Hydro-Lifter Rock Bit With PDC Inserts, while in the employ either as an employee or consultant of, SMITH INTERNATIONAL, INC., a corporation organized and existing under the laws of the State of Delaware, doing business at 16740 Hardy Street, Houston, Texas 77032 (sometimes hereinafter called "ASSIGNEE"), do hereby ASSIGN, SELL and CONVEY to said SMITH INTERNATIONAL, INC., its successors and assigns, the entire right, title and interest throughout the world in and to:

- 1. Said invention in Hydro-Lifter Rock Bit With PDC Inserts;
- United States of America patent application on said invention, Attorney's File No. 1030-20000, executed by us concurrently herewith, entitled Hydro-Lifter Rock Bit With PDC Inserts;
- 3. All applications for patent or like protection on said invention that have now been or may in the future be made by us or our legal representatives, including any continuation, continuation-in-part and any other utility applications that may be based on this invention, whether in the United States of America or any other place anywhere in the world;
- 4. All patents and like protection that have now been or may in the future be granted on said invention to us or our legal representatives, whether in the United States of America or in any other country or place anywhere in the world;
- 5. All substitutions for and divisions, continuations, continuations-inpart, renewals, reissues, extensions, and the like of said applications and patents and like grants, including without limitation, those obtained or permissible under past, present and future laws and statutes;

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- 6. All rights of action on account of past, present and future unauthorized use of said invention and for infringement of said patents and like protection;
- 7. The right in ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and
- 8. All international rights of priority associated with said invention, applications, patents and like protection;

and we covenant that we, and our heirs, legal representatives, assigns, administrators, and executors, will, at the expense of ASSIGNEE, its successors and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors and assigns, the full benefit of this Assignment.

EXECUTED at the place and on the date indicated below, opposite our signatures.

ASSIGNORS

Date: 6/5/2000	Amerday Sugh
Executed at:	Name: Amardeep Singh
THE STATE OF TEXAS §	
COUNTY OF HARRIS §	•
known to me to be the person whose name	, on this day personally appeared Armardeep Singh is subscribed to the foregoing instrument, and ame for the purposes and consideration therein
GIVEN UNDER MY HAND AND SEA, 2000. ELAINE SAMFORD MY COMMISSION EXPIRES March 16, 2004	AL OF OFFICE, this the day of Notary Public in and for the State of TEXAS

Date: JUNG 5th 2000	Juan Van Ngyer
Executed at:	Name: Quan Van Nguyen
THE STATE OF TEXAS §	
COUNTY OF HARRIS §	
BEFORE ME, the undersigned authority, Nguyen, known to me to be the person whose name acknowledged to me that he executed the same expressed.	on this day personally appeared Quan Van is subscribed to the foregoing instrument, and for the purposes and consideration therein
GIVEN UNDER MY HAND AND SEAL , 2000.	OF OFFICE, this the day of
	A. C.
[SEAL] ELAINE SAMFORD MY COMMISSION EXPIRES March 16, 2004	Notary Public in and for the State of TEXAS
Date: June 5, 2000	Name: Sujian Huang
Executed at:	V
THE STATE OF TEXAS §	i
COUNTY OF HARRIS §	·
BEFORE ME, the undersigned authority, of known to me to be the person whose name is acknowledged to me that he executed the same expressed.	n this day personally appeared Sujian Huang, subscribed to the foregoing instrument, and for the purposes and consideration therein
GIVEN UNDER MY HAND AND SEAL 2000.	OF OFFICE, this the day of
, 2000.	
[SEAL] ELAINE SAMFORD MY COMMISSION EXPIRES March 16, 2004	Notary Public in and for the State of TEXAS
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