09-15-1998 FORM PTO-161 Expires 06/30/99 **U.S. Department of Commerce** Patent and Trademark Office OMB 0651-0027 PATENT 100830034 **RECORDATION FORM COVER SHEET** PATENTS ONLY Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies). Submission Type Conveyance Type Assignment **Security Agreement** New Resubmission (Non-Recordation) License Change of Name Document ID# Correction of PTO Error Other Merger Reel # Frame # U.S. Government
(For Use ONLY by U.S. Government Agencies) **Corrective Document** Reel # Frame # Departmental File **Secret File** Mark if additional names of conveying parties attached Execution Date

Month Day Yea Conveying Party(ies) Year Name (line 1) Yusheng Yuan 08 18 98 Name (line 2) Execution Date Second Party Month Day Name (line 1) Douglas W. Davison 98 26 Name (line 2) Receiving Party Mark if additional names of receiving parties attached If document to be recorded Name (line 1) Halliburton Energy Services, Inc. is an assignment and the receiving party is not domiciled in the United Name (line 2) States, an appointment of a domestic Address (line 1) representative is attached. 4100 Clinton Drive (Designation must be a separate document from Address (line 2) Assignment.) Address (line 3) Houston Texas/U.S. **Domestic Representative Name and Address** Enter for the first Receiving Party only. Name Address (line 1) Address (line 2) Address (line 3) Address (line 4) FOR OFFICE USE ONLY 09/15/1998 TTOW11 00000069 080300 09005635

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Corresponde	ent Name and Address	Area Code and Telephone Number	580-251-3840				
Name [Stephen R. Christian						
Address (line 1)	Halliburton Energy Ser	vices					
Address (line 2)	P. O. Box 1431						
Address (line 3)	Duncan, OK 73536-0102						
Address (line 4)							
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Stephen R.	Christian	July 11 m	09/03/98				
	of Person Signing	Signatule	Date				

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U.S. Department of Commerce Patent and Trademark Office PATENT

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PATENT

REEL: 9441 FRAME: 0031

ASSIGNMENT

WHEREAS, we, YUSHENG YUAN of HOUSTON, HARRIS COUNTY, TEXAS; DOUGLAS W. DAVISON of PEARLAND, BRAZORIA COUNTY, TEXAS, and KEVIN T. BERSCHEIDT of DUNCAN, STEPHENS COUNTY, OKLAHOMA, have invented CHIP RESISTANT BUTTONS FOR DOWNHOLE TOOLS HAVING SLIP ELEMENTS for which we have made application for Letters Patent of the United States; and

WHEREAS, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at Duncan, Stephens County, Oklahoma, is desirous of acquiring an interest therein:

NOW, THEREFORE, in consideration of one dollar, the receipt of which is hereby acknowledged, and other good and valuable consideration, we, YUSHENG YUAN, DOUGLAS W. DAVISON and KEVIN T. BERSCHEIDT, by these presents do sell, assign, and transfer unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, as described in the application filed January 9, 1998, Serial Number 09/005,635, and any divisional, continuing or reissue application based on the present invention, preparatory to obtaining Letters Patent of the United States therefor; said invention, application, and any and all Letters Patent issuing therefor to be held and enjoyed by the said HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

AND we do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

AND we do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assigns or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to us, and to testify as to such facts in any interference or other litigation.

PATENT REEL: 9441 FRAME: 0032

EXECUTED by the undersigned on the dates indicated: STATE OF TEXAS COUNTY OF Harris Be it remembered, that on this 18th day of Wayt, A.D. 1998, before me a notary public in and for said State, personally appeared YUSHENG YUAN to me known to be the identical persons described in and who executed the within and foregoing instrument and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth. In witness whereof, I have hereunto set my official signature affixed my notarial seal, the day and year first above written. Notally Public in and for the State of Texas

My Commission Expires:

TRACY L. KAINER NOTARY PUBLIC STATE OF TEXAS My Comm. Exp.: 08-07-2001

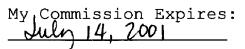
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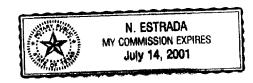
STATE	OF	TEX	KAS)	
		1)	ss.
COUNTY	OI		arris)	

Be it remembered, that on this 26th day of the day of the light, A.D. 1998, before me a notary public in and for said State, personally appeared DOUGLAS W. DAVISON to me known to be the identical persons described in and who executed the within and foregoing instrument and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

In witness whereof, I have hereunto set my official signature and affixed my notarial seal, the day and year first above written.

Notary Public in and for the State of Texas





STATE OF OKLAHOMA)

SS.

COUNTY OF STEPHENS)

Be it remembered, that on this 3^{rd} day of 198, before me a notary public in and for said State, personally appeared KEVIN T. BERSCHEIDT to me known to be the identical persons described in and who executed the within and foregoing instrument and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

In witness whereof, I have hereunto set my official signature and affixed my notarial seal, the day and year first above written.

Notary Public in and for the State of Oklahoma

My Commission Expires: October 3, 2000

RECORDED: 09/08/1998

PATENT REEL: 9441 FRAME: 0034