504060054 10/20/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEFFERY D. KARCHER	11/16/2011
D. CHAD BRENNEIS	11/17/2011
LANCE E. BROTHERS	11/16/2011

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

Property Type	Number
Application Number:	15298793

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 713-622-7005

Email:ctumey@tumeyllp.comCorrespondent Name:TUMEY LLP - HESAddress Line 1:PO BOX 22188

Address Line 4: HOUSTON, TEXAS 77227-2188

ATTORNEY DOCKET NUMBER:	2011-IP-046550U1
NAME OF SUBMITTER:	COREY S. TUMEY
SIGNATURE:	/Corey Tumey/
DATE SIGNED:	10/20/2016

Total Attachments: 4

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PATENT 504060054 REEL: 040080 FRAME: 0057

Docket No. 2011-IP-046550U1

ASSIGNMENT

Whereas, I/We Jeffery D. Karcher of Duncan, Oklahoma, Chad Brenneis of Marlow, Oklahoma, and Lance E. Brothers of Chickasha, Oklahoma, have invented "CALCIUM PHOSPHATE CEMENT COMPOSITIONS COMPRISING PUMICE AND/OR PERLITE AND ASSOCIATED METHODS" for which I 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 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey 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, described in the Patent Application first executed on November 16, 2011, submitted concurrently herewith, and any divisional, continuing or reissue application based on the present application 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 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 me and had this assignment and sale not been made.

And I 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 I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign 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 me, and to testify as to such facts in any interference or other litigation.

PATENT REEL: 040080 FRAME: 0058

Executed thi	s	November	_, 2011		
				Mu	
	•		Jef.	fery D. Karcher	
STATE OF (OKLAHOMA)) s:	s			
COUNTY O	F STEPHENS)				
	personally appeared be his free act and dea				foregoing , 2011.
Seal	Notary Public, State of Oklahoma TIFFANY KYLE Commission # 10009641 Expires 11-15-2014	; \Box	iffing by	(Notary)	

Executed this 17 day of November, 2011
Chal Brenn
Chad Brenneis
STATE OF OKLAHOMA)
COUNTY OF STEPHENS)
Before me personally appeared said Chad Brenneis and acknowledged the foregoing instrument o be his free act and deed this
Notary Public, State of Oklahoma TIFFANY KYLE Commission # 10009641 Expires 11-15-2014 (Notary)

Executed	this 16 day of		
		Lance E. Brothers) <u>大</u>
STATE O	F OKLAHOMA)) ss	
COUNTY	OF STEPHENS) '55	
Before m	t to be his free act and	deed this day of, 201	_
Seal	Notary Public, State of Oktaho TIFFANY KYLE Commission # 100096. Expires 11-15-2014	(Motary)	

PATENT REEL: 040080 FRAME: 0061

RECORDED: 10/20/2016