502380256 06/11/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Mikko Jaaskelainen	06/11/2013
lan Bradford Mitchell	06/11/2013

RECEIVING PARTY DATA

Name:	Halliburton Energy Services, Inc.	
Street Address:	10200 Bellaire Blvd.	
City:	Houston	
State/Country:	TEXAS	
Postal Code:	77072	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13915166

CORRESPONDENCE DATA

Fax Number: 8777697945

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

Phone: (617) 542-5070 Email: apsi@fr.com Correspondent Name: Fish & Richardson Address Line 1: P.O. Box 1022

Address Line 4: Minneapolis, MINNESOTA 55440-1022

ATTORNEY DOCKET NUMBER:	17697-0044001
NAME OF SUBMITTER:	Joni MeGuire
Signature:	/Joni MeGuire/
Date:	06/11/2013

Total Attachments: 3

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> **PATENT REEL: 030589 FRAME: 0760**

Attorney Docket No.: 17697-0044001 2013-IP-069062U1

ASSIGNMENT

For valuable consideration, we, Ian Bradford Mitchell, of 5303 Mason Road #2224, Katy, TX 77450; Mikko Jaaskelainen, of 4011 Bell Hollow Lane, Katy, TX 77494; hereby assign to HALLIBURTON ENERGY SERVICES, INC., a corporation of Delaware, having a place of business at 10200 Bellaire Blvd., Houston, Texas 77072, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled GENERATING BROADBAND LIGHT DOWNHOLE FOR WELLBORE APPLICATION, filed 6/11/2013__, and assigned U.S. Serial Number 13/915,166, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations 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 we authorize the Assignee to apply in all countries in our 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 we agree for ourselves and our respective 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.

Assignment Page 1 of 3

Attorney Docket No.: 17697-0044001 2013-IP-069062U1

DATE:

Mikko Jaaskelainen

STATE OF TEXAS

S
COUNTY OF

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On the day of day of

Attorney Docket No.: 17697-0044001 2013-IP-069062U1

Ian Bradford Mitchell

STATE OF TEXAS

COUNTY OF

Aday of

On the

day of

Description

On the foregoing instrument.

Description

My Commission Explies

November 19, 2016

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RECORDED: 06/11/2013

Assignment Page 3 of 3