

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

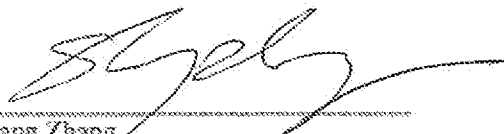
EPAS ID: PAT6040528

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SHANG ZHANG	05/07/2019
GREG DANIEL BRUMBAUGH	05/05/2019
HAILUN NI	05/02/2019
GAETAN PIERRE LOUIS BARDY	05/07/2019
HAROLD GRAYSON WALTERS	05/08/2019
RECEIVING PARTY DATA	
Name:	LANDMARK GRAPHICS CORPORATION
Street Address:	3000 N. SAM HOUSTON PARKWAY E.
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77032
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16652619
CORRESPONDENCE DATA	
Fax Number:	(972)480-8865
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	972-480-8800
Email:	docket@pj-iplaw.com
Correspondent Name:	HALLIBURTON ENERGY SERVICES, INC. C/O PA
Address Line 1:	14241 DALLAS PARKWAY
Address Line 2:	SUITE 620
Address Line 4:	DALLAS, TEXAS 75254
ATTORNEY DOCKET NUMBER:	2018-102933 U1 US
NAME OF SUBMITTER:	J. JOEL JUSTISS
SIGNATURE:	/J. Joel Justiss/
DATE SIGNED:	03/31/2020
Total Attachments: 6	

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ASSIGNMENT


For valuable consideration, Zhang, Shang, a resident of Tulsa, OK; Brumbaugh, Greg Daniel, a resident of Houston, TX; Ni, Hailun, a resident of Stanford, CA; Bardy, Gaetan Pierre Louis, a resident of Spring, TX; Walters, Harold Grayson, a resident of Tomball, TX, hereby, assigns to Landmark Graphics Corporation, a corporation of Delaware, having a place of business at 3000 N. Sam Houston Parkway E., Houston, Texas, 77032-3219, U.S.A., and its successors, assigns (collectively hereinafter called "the Assignee), the entire right, title and interest throughout the world in the inventions and improvements which are subject of a PCT Application entitled "SIMULATING HYDRAULIC FRACTURING GEOMETRY PROPAGATION USING A DIFFERENTIAL STRESS AND PATTERN-BASED MODEL" this assignment including said application, any and all United States and foreign applications and 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 all treaties; and I hereby 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 respective heirs, legal representatives and assign, 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.

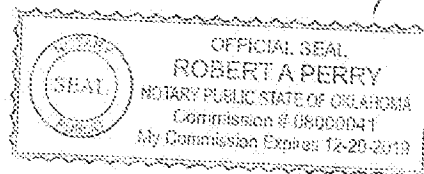

Shang Zhang

In the State of Oklahoma §

In the County of Tulsa §

On this 20th day of May, 2019, before me personally came Shang Zhang, to me known to be the individual described herein and who executed the foregoing instrument and acknowledged execution of the same.


Notary Public in and for the State of Oklahoma

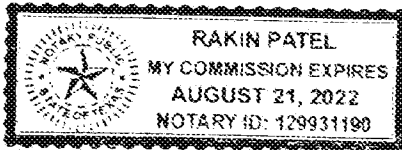


Greg D. Brumbaugh
Greg Daniel Brumbaugh

In the State of Texas §

In the County of Harris §

On this 5th day of May, 2019, before me personally came Greg Daniel Brumbaugh, to me known to be the individual described herein and who executed the foregoing instrument and acknowledged execution of the same.



Rakin Patel
Notary Public in and for the State of Texas

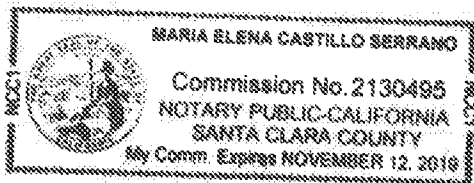
Hailun Ni

Hailun Ni

California
In the State of ~~Texas~~ §

In the County of *Santa Clara* §

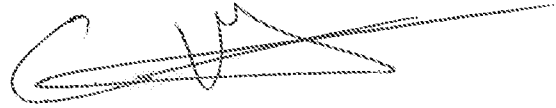
On this *2nd* day of *May*, 2019, before me personally came Hailun Ni, to me known to be the individual described herein and who executed the foregoing instrument and acknowledged execution of the same.



Maria Elena Castillo Serrano

Notary Public in and for the State of ~~Texas~~

California

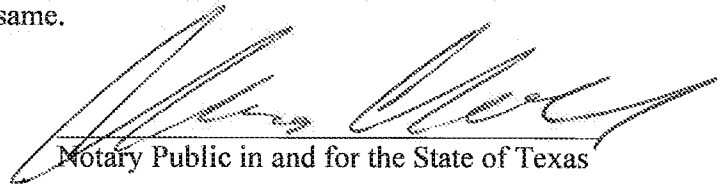


Gaetan Pierre Louis Bardy

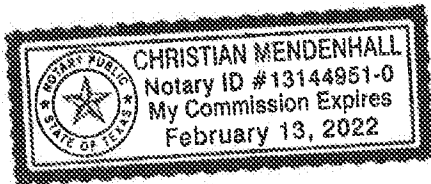
In the State of Texas §

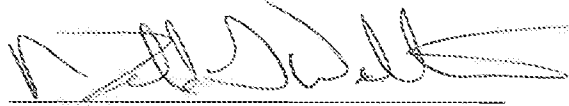
In the County of Harris §

On this 7, day of May, 2019, before me personally came Gaetan Pierre Louis Bardy, to me known to be the individual described herein and who executed the foregoing instrument and acknowledged execution of the same.



Notary Public in and for the State of Texas



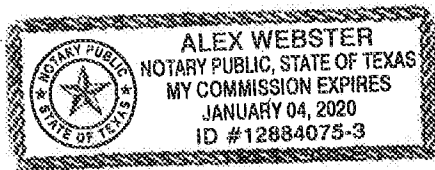


Harold Grayson Walters

In the State of Texas §

In the County of Lewis §

On this 8th day of May, 2019, before me personally came Harold Grayson Walters, to me known to be the individual described herein and who executed the foregoing instrument and acknowledged execution of the same.





Notary Public in and for the State of Texas