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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4174783

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SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYAN	NCE:	ASSIGNMENT		
CONVEYING PARTY DA	ΑΤΑ			
		Name	Execution Date	
ZHENGCHUN LIU			12/07/2016	
ROBELLO SAMUEL			12/07/2016	
ADOLFO GONZALES			12/07/2016	
YONGFENG KANG			12/07/2016	
			<u>. </u>	
RECEIVING PARTY DA				
Name:		IARK GRAPHICS CORPORATION		
Street Address:		. SAM HOUSTON PARKWAY E.		
City:	HOUS	ΓΟΝ		
State/Country:	TEXAS			
Postal Code:	77032			
PROPERTY NUMBERS	Total: 1			
Property Type		Number	_	
Application Number:		15359397		
CORRESPONDENCE D Fax Number:	AIA	(214)200-0853		
	e sent to	the e-mail address first; if that is un	successful. it will be sent	
		l; if that is unsuccessful, it will be ser		
Phone:		214-651-5000		
Email:	ipdocketing@haynesboone.com			
Correspondent Name: Address Line 1:		HAYNES AND BOONE, LLP 2323 VICTORY AVENUE, SUITE 700		
Address Line 1: Address Line 2:		IP SECTION		
Address Line 2:	DALLAS, TEXAS 75219			
ATTORNEY DOCKET NU	JMBER:	7523.1687US01		
NAME OF SUBMITTER:		VINU RAJ		
SIGNATURE:		/Vinu Raj/		
DATE SIGNED:			12/07/2016	
DATE SIGNED:		12/07/2016		

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A S S I G N M E N T

WHEREAS, Zhengchun Liu (an "ASSIGNOR"), a citizen of China, residing at 1631 Berkoff Drive, Sugar Land, TX 77479, United States of America, has developed and is the owner of certain inventions as embodied in and represented by the Intellectual Property, as defined below.

WHEREAS, Robello Samuel (an "ASSIGNOR"), a citizen of the United States of America, residing at 11306 Dawnheath Dr., Cypress, TX 77433, United States of America, has developed and is the owner of certain inventions as embodied in and represented by the Intellectual Property, as defined below.

WHEREAS, Adolfo Gonzales (an "ASSIGNOR"), a citizen of the United States of America, residing at 8218 Pine Falls Dr., Houston, TX 77095, United States of America, has developed and is the owner of certain inventions as embodied in and represented by the Intellectual Property, as defined below.

WHEREAS, Yongfeng Kang (an "ASSIGNOR"), a citizen of China, residing at 2631 Falcon Knoll Ln., Katy, TX 77494, United States of America, has developed and is the owner of certain inventions as embodied in and represented by the Intellectual Property, as defined below.

"Intellectual Property" shall collectively mean the technology developed by ASSIGNOR and generally titled:

VECTOR-RATIO SAFETY FACTORS FOR WELLBORE TUBULAR DESIGN

as well as any application related thereto, including, without limitation, the application(s):

____ of even date filed herewith;

<u>X</u> filed on November 22, 2016 and assigned application number 15/359,397.

WHEREAS, each ASSIGNOR is desirous of assigning all of his right in the Intellectual Property to Landmark Graphics Corporation ("ASSIGNEE"), a corporation, doing business at 3000 N. Sam Houston Pkwy E., Houston, TX 77032, United States of America.

NOW, THEREFORE, subject to the terms, conditions, covenants and provisions of this Assignment, and in consideration of Ten Dollars (\$10.00) and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by each ASSIGNOR, the parties hereto, intending legally to be bound, agree as follows:

Each ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE, its successors and assigns, said ASSIGNOR'S entire right, title, and interest in the Intellectual Property, including, without limitation, (i) all United States and foreign rights therein, whether patentable or not, and in and to aforesaid patents, patent applications and any provisional, divisions or continuations

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thereof, and any patents or similar registrations obtained for the Intellectual Property in the United States and foreign countries, or issuing out of said application or any such division or continuation thereof, and any reissues or extensions of any such patents, as well as all rights to claim priority to any of the foregoing and (ii) all causes of action, past, present, and future, for infringement, unfair competition or otherwise with respect to the Intellectual Property and all disclosures of ideas, whether or not patentable and all pending applications.

Each ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

Each ASSIGNOR hereby covenants that (i) he believes himself to be the original and first inventor of the subject matter of the Intellectual Property; (ii) he has the full right to convey his entire right, title and interest in said Intellectual Property, and (iii) he has not executed and will not execute any agreement in conflict herewith.

Each ASSIGNOR further covenants that he will not undertake any activity to erode or challenge the ASSIGNEE'S rights in the Intellectual Property assigned hereunder.

Each ASSIGNOR further covenants that he will, at any time, upon ASSIGNEE'S request, execute and deliver any and all papers that may be necessary or desirable to perfect the title in the Intellectual Property, or any patents that may be granted therefore, in the ASSIGNEE, its successors and assigns, and if ASSIGNEE, or its assignee, desires to make a substitute, divisional or continuation application for said Intellectual Property, or to secure a reissue or extension of any Letters Patent, to file disclaimer relating thereto, or an application for a corresponding patent in any foreign country, or undertake any other act to secure and protect the ASSIGNEE'S rights in the Intellectual Property, that he will upon request, sign all papers, make all rightful oaths, and do all lawful acts requisite for the said purposes, but at the expense of the ASSIGNEE.

Each ASSIGNOR hereby acknowledges that the entire beneficial interest in the Intellectual Property and to which the above application relates is irrevocably vested in the ASSIGNEE including the right to make the application for protection in all countries abroad and to claim priority under the International Convention for such applications and hereby assents to the making of any such applications, with or without priority claims, and of any divisional application resulting therefrom.

Each ASSIGNOR further covenants that he will at all times communicate to the ASSIGNEE, its successors, assigns or legal representatives, all facts relating to the Intellectual Property, or the history thereof, known to him, and testify as the same in interferences or other litigation, when requested so to do.

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Executed	d and delivered this	s. <u>Ztk</u>	day of _	<u>December</u>	2016.
Inventor:	21	., "V		·····	

Zhengchun Liu

State of <u>Texas</u> § County of <u>Harris</u> §

BEFORE ME, the undersigned authority, personally appeared this 27 day of December 2016, <u>Zhengchum</u> thown to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he signed, sealed and delivered the said instrument as his free and voluntary act and deed for the uses and purposes therein set forth.

[SEAL]	
	GALE L. MUSKIET Notary ID #13076280-2 My Commission Expires August 17, 2020

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		muskiet
My Commission I	Expires: Aug.	17, 2020

Executed and delivered this 7^{th} day of DeCemp/2016. Inventor: State of Texa County of Marr

BEFORE ME, the undersigned authority, personally appeared this 27 day of <u>becember</u> 2016, <u>Robello 54m</u> Known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he signed, sealed and delivered the said instrument as his free and voluntary act and deed for the uses and purposes therein set forth.

[SEAL] GALE L. MUSKIET Notary ID #13078280-2 My Commission Expires August 17, 2020	Notary Public <u>Gale L. Muskiet</u> My Commission Expires: <u>Aug 17</u> , 2020
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Executed and delivered this 07 day of December 2016.

Inventor: Adolfo Gonzales

GALE L. MUSKIET Notary ID #13078280-2 \$ My Commission Expires August 17, 2020

State of Texas § County of Harris §

BEFORE ME, the undersigned authority, personally appeared this $\partial \vec{f}$ day of <u>becember</u> 2016, <u>Adolfo</u> Goult known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he signed, sealed and delivered the said instrument as his free and voluntary act and deed for the uses and purposes therein set forth.

[SEAL]

Dub J. Muskin

Notary Public <u>Gale L. Muskiet</u> My Commission Expires: <u>Quiq. 17</u>, 2020

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Executed and delivered this 7th day of Decembe	<u>7</u> 2016.
Inventor: UNUL Ang	
(/ Mongferfg Kang- State of <u>Texas</u> §	

County of Harris §

BEFORE ME, the undersigned authority, personally appeared this $O_{\frac{1}{2}}$ day of <u>becember</u> 2016, <u>longtens</u> Kaknown to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he signed, sealed and delivered the said instrument as his free and voluntary act and deed for the uses and purposes therein set forth.

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机本月	My Commission Expires &	į
N COF 1	August 17, 2020	

Date Anguskit	
Notary Public Gale L. Muskiet	
My Commission Expires: Qug 17, 2020	

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RECORDED: 12/07/2016