

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7623270

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
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WENJUN HUANG	10/11/2019
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Property Type	Number
Application Number:	17729545
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ATTORNEY DOCKET NUMBER:	061429-1308467
NAME OF SUBMITTER:	JOHN MULHERN
SIGNATURE:	/John Mulhern/
DATE SIGNED:	11/02/2022
Total Attachments: 3	
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**ASSIGNMENT OF INTELLECTUAL PROPERTY RIGHTS
IN PATENT APPLICATION**

Whereas we, the undersigned inventors, have invented certain new and useful innovations as set forth in the patent application entitled:

**PREDICTIVE TORQUE AND DRAG ESTIMATION FOR REAL-TIME
DRILLING**

the specification of which was filed with the U.S. Receiving Office of the PCT on July 30, 2019 and assigned application no. PCT/US2019/044211.

For one dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which we acknowledge, we:

1. Agree to assign, transfer, convey, and sell, hereby assign, transfer, convey, and sell and have assigned, transferred, conveyed, and sold to Landmark Graphics Corporation, a corporation of the State of Delaware having a principal place of business at 3000 N. Sam Houston Parkway E., Houston, Texas 77032-3219 ("Assignee"), the entire right, title, and interest in and to:
 - (a) all intellectual property (including, without limitation, any innovation, information, invention, discovery, product, process, work or design) disclosed, embodied, shown, or claimed in the above-referenced patent application, implicitly or explicitly;
 - (b) the above-referenced patent application, the right to claim priority to the above-referenced patent application, all applications based in whole or in part upon the above-referenced patent application, including, without limitation, all applications that are a provisional, non-provisional, design, divisional, continuation, continuation-in-part, registration, utility model, industrial design, reissue, renewal, substitute, extension, reexamination, post-grant review, inter partes review, supplemental examination or non-U.S. patent application or application for other rights based in whole or in part on the above-referenced patent application;
 - (c) all patents (including, without limitation, all U.S. and non-U.S. patents, registrations, utility models, industrial designs, design patents, counterparts, continuations, continuations-in-part, divisionals, reissues, renewals, substitutes, extensions, reexaminations, post-grant reviews, inter partes reviews and supplemental examinations) that are granted or issued upon, or that claim priority to, any and all applications described in (b) of this paragraph or that disclose or claim intellectual property described in (a) of this paragraph, in whole or in part; and

Assignment of Intellectual Property Rights in Application

International Patent Application Entitled: PREDICTIVE TORQUE AND DRAG ESTIMATION FOR REAL-TIME DRILLING

Attorney Docket: 061429-1134827 (2018-IPM-102525 U1 PCT)

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- (d) all claims for damages by reason of past infringement of any rights under the applications or patents described in (a), (b) or (c) of this paragraph (including provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d)) and the right to sue for and collect such damages and royalties for Assignee's own use.
2. Authorize and request the U.S. Patent and Trademark Office or any other U.S. or non-U.S. agency to issue to the Assignee any and all patent(s), or other rights or documents, resulting from the intellectual property, patent application(s) and patents described in paragraph 1 of this Assignment.
 3. Agree to sign all papers and documents, including without limitation, applications, declarations, oaths and petitions, and, at the Assignee's expense, perform any other acts that are necessary in connection with prosecution of patent application(s) or intellectual property described in paragraph 1 of this Assignment and the enforcement of patent(s) or other rights resulting from such patent application(s) or intellectual property.
 4. Agree that the terms, covenants, and conditions of this Assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon us, as well as our heirs, legal representatives, and assigns.
 5. Promise and affirm that we have not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.

Dated:

07/31/19

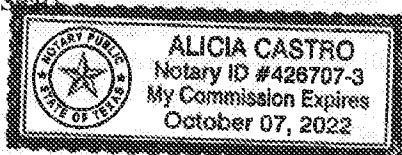
Robello Samuel

STATE OF TEXAS

COUNTY OF HARRIS

Before me, a Notary Public in and for the State of TEXAS, on this 31 day of 2019, 2019, personally appeared Robello Samuel, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

(Seal)



[Signature]
NOTARY PUBLIC

My Commission Expires: 10-07-2022

PATENT

REEL: 061628 FRAME: 0026

Assignment of Intellectual Property Rights in Application

International Patent Application Entitled: PREDICTIVE TORQUE AND DRAG ESTIMATION FOR
REAL-TIME DRILLING

Attorney Docket: 061429-1134827 (2018-IPM-102525 U1 PCT)

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Dated: 2019/10/11

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Wenjun Huang

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