

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6221772

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Michael Affleck	07/21/2020
Krzysztof Karol Machocki	07/21/2020
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16936878
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<b>ATTORNEY DOCKET NUMBER:</b>	38136-1153001
<b>NAME OF SUBMITTER:</b>	KIRSTIN MATTEO
<b>SIGNATURE:</b>	/kirstin matteo/
<b>DATE SIGNED:</b>	07/28/2020
<b>Total Attachments: 3</b>	
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ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, MICHAEL AFFLECK, and KRZYSZTOF KAROL MACHOCKI, each individually assign to ARAMCO OVERSEAS COMPANY UK LIMITED, a corporation formed under the laws of United Kingdom and having a principal place of business at 10 Portman Square, London W1H 6AZ, United Kingdom, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the invention(s) (the "Subject Matter") described in a patent application that names us as inventors, is titled "AUTOMATIC ANALYSIS OF DRILL STRING DYNAMICS," and was or will be filed in the United States Patent and Trademark Office on July 23, 2020, as application 16/936,878 (the "Application"). We authorize the insertion of the filing date and application number above.

This Assignment assigns, in addition to the Subject Matter, (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region and under every treaty or convention, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

To the extent any portion of the rights assigned by this Assignment has previously been assigned to the Assignee, this Assignment is a confirmation of the previous assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or, at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter; will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and documents; and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

Michael Affleck  
Michael Affleck

Date: 21 July 2020

Krzysztof Karol Machocki  
Krzysztof Karol Machocki

Date: \_\_\_\_\_

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\_\_\_\_\_  
Michael Affleck

Date: \_\_\_\_\_

  
\_\_\_\_\_  
Krzysztof Karol Machocki

Date: 21 July 2020