

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3527478

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT		
EFFECTIVE DATE:	02/10/2015		
CONVEYING PARTY DATA			
	Name	Execution Date	
	ANDREW JAFFREY	08/27/2015	
	TECHDEV ENGINEERING LTD.	08/27/2015	
RECEIVING PARTY DATA			
Name:	CAMERON INTERNATIONAL CORPORATION		
Street Address:	1333 WEST LOOP SOUTH		
Internal Address:	SUITE 1700		
City:	HOUSTON		
State/Country:	TEXAS		
Postal Code:	77027		
PROPERTY NUMBERS Total: 1			
	Property Type	Number	
	Application Number:	14618430	
CORRESPONDENCE DATA			
Fax Number:	(713)658-2553		
<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:	713-658-1818		
Email:	patents@chamberlainlaw.com		
Correspondent Name:	COLLIN A. ROSE		
Address Line 1:	1200 SMITH STREET		
Address Line 2:	14TH FLOOR		
Address Line 4:	HOUSTON, TEXAS 77002		
ATTORNEY DOCKET NUMBER:	111078-029302US		
NAME OF SUBMITTER:	JESSICA STRYKER, IP PARALEGAL		
SIGNATURE:	/Jessica Stryker, IP Paralegal/		
DATE SIGNED:	09/15/2015		
Total Attachments: 6			
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ASSIGNMENT NUNC PRO TUNC

This Assignment is effective Nunc Pro Tunc at least as early as the filing date for each item listed in Schedule 1 and no later than 27th August 2015. For good and valuable consideration given by Cameron International Corporation directly, or indirectly through TechDev Engineering Ltd., and any other valuable consideration, the receipt and sufficiency of which are hereby acknowledged,

1. Andrew Jaffrey, Ph.D. ("ASSIGNOR"), having jointly or solely made inventions in the items listed in Schedule 1 ("INVENTIONS"), while in the employ or hire either as an employee or consultant of TechDev Engineering Ltd. or employee or consultant of Cameron International Corporation, and
2. TechDev Engineering Ltd., a limited company organized and existing under the laws of the United Kingdom, doing business at Meldrum Manse, Urquhart Road, Oldmeldrum AB51 0AD, Scotland, ("ASSIGNOR"),
together ("ASSIGNORS"),

do hereby assign, sell, and convey to Cameron International Corporation, a corporation organized and existing under the laws of the state of Delaware, doing business at 1333 West Loop South, Suite 1700, Houston, Texas 77027-9919 ("ASSIGNEE"), its successors, and assigns, any and all of ASSIGNORS' entire right, title, and interest throughout the world in and to:

1. The INVENTIONS;
2. All applications for patent or like protection for the INVENTIONS that have now been or may in the future be made anywhere in the world, including any continuation, continuation-in-part, and any other utility applications, which includes all patent applications listed in Schedule 1;¹
3. All patents and like protection that have now been or may in the future be granted on the INVENTIONS anywhere in the world;

¹ ASSIGNORS further authorize the handling attorneys to insert the serial number and filing date of the patent application identified by the listed file number as soon as it is known as well as to attach and update a schedule of any further application serial numbers or patent numbers related to the INVENTION as they become known.

4. All substitutions, divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of the applications and patents and like grants for the INVENTIONS, including without limitation, those obtained or permissible under past, present, and future laws and statutes;
5. All rights of action on account of past, present, and future unauthorized use of the INVENTIONS and for infringement of the patents and like protection anywhere in the world;
6. The right in ASSIGNEE to file in its name applications for patents and like protection for the INVENTIONS in any country or countries in the world; and
7. All rights of priority associated with the INVENTIONS, applications, patents, and like protection anywhere in the world.

ASSIGNORS covenant that ASSIGNORS, their heirs, legal representatives, assigns, administrators, and executors will, at the expense of ASSIGNEE, its successors, and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors, and assigns, the full benefit of this Assignment. Further, ASSIGNORS warrant that the INVENTION is not encumbered by another assignment or obligation of assignment to a third-party and that ASSIGNOR has the full ability and authority to assign and encumber the INVENTIONS.

Andrew Jaffrey, Ph.D.

ASSIGNOR: A. Jaffrey
Name: Andrew Jaffrey, Ph.D.

Date: 27 Aug. 2015

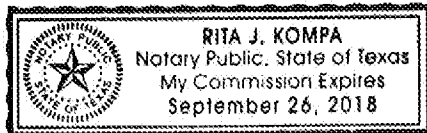
THE STATE OF: Texas

COUNTY OF: Harris

Before me, the undersigned authority, on this day personally appeared Andrew Jaffrey Ph.D., known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office, this the 27th day of August,
2015.

Rita J. Kompa
Notary Public in and for the State of
Texas



My commission expires: September 26, 2018

[SEAL]

TechDev Engineering Ltd.

ASSIGNOR: _____

Representative's name: Andrew Jaffrey, Ph.D.

Title: DIRECTOR

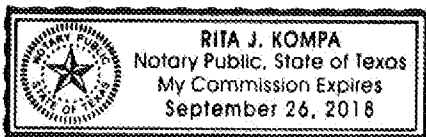
Date: 27. AUG. 2015.

THE STATE OF: Texas

COUNTY OF: Harris

Before me, the undersigned authority, on this day personally appeared Andrew Jaffrey^{Ph.D.}, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office, this the 27th day of August, 2015.



Rita J. Kompa
Notary Public in and for the State of
TEXAS

My commission expires: September 26, 2018

[SEAL]

Cameron International Corporation

ASSIGNEE: _____

Representative's name: _____

Title: Chief Counsel, IP

Date: 31 August 2018

THE STATE OF: Texas

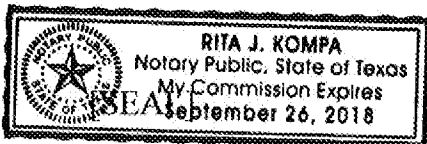
COUNTY OF: Harris

Before me, the undersigned authority, on this day personally appeared Manish Uyas, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office, this the 31st day of August, 2018.

Rita J. Kompa
Notary Public in and for the State of
Texas

My commission expires: September 26, 2018



Schedule 1

ATTY FILE #	CAM FILE #	TITLE	COUNTRY	APPLICATION #	FILING DATE	PATENT #
111078-028600US	DRL-031815 US	Measurement System	US	13/671,777	2012-Nov-08	
111078-028601WO	DRL-031815 PCT	Measurement System	PCT	PCT/US2013/068749	2013-Nov-06	
111078-028900US	DRL-031849 US	Subsea Electronic Data System	US	13/596,759	2012-Aug-28	
111078-028901WO	DRL-031849 PCT	Subsea Electronic Data System	PCT	PCT/US2013/056811	2013-Aug-27	
111078-028902US	DRL-031849 US DIV	Subsea Electronic Data System	US	14/835,915	2015-Aug-26	
111078-029300US	DRL-031859 US	Blowout Preventer Status Assembly	US	13/606,363	2012-Sep-07	US 8978699
111078-029301WO	DRL-031859 PCT	Blowout Preventer Status Assembly	PCT	PCT/US2013/058165	2013-Sep-05	
111078-029302US	DRL-031859 US CON	Blowout Preventer Status Assembly	US	14/618,430	2015-Feb-10	
111078-030800US	DRL-031997 US	Measurement System	US	14/181,185	2014-Feb-14	
111078-030801WO	DRL-031997 PCT	Measurement System	PCT	PCT/US2015/015052	2015-Feb-09	
111078-034000US	DRL-032268 US	Smart Material Coupler	US	14/586,643	2014-Dec-30	
111078-034300US	DRL-032289 US	Wire Cutting Blowout Preventer	US	14/725,357	2014-Oct-15	
111078-035200US	DRL-032305 US	Piezoelectric Generator for Hydraulic Systems	US	14/680,938	2015-Apr-07	
111078-035300US	DRL-032306 US	System for Communicating Data via Fluid Lines	US	14/850,341	2015-Sep-10	
111078-035400US	DRL-032307 US	Sensor Assembly for Monitoring a Fluid Extraction Component	US	14/850,378	2015-Sep-10	
111078-036100US	DRL-032340 US	Blowout Preventer with Inflatable Element	US	14/840,490	2015-Aug-31	
111078-036200US	DRL-032341 US	Annular Blowout Preventer with Radial Actuating Member	US	14/840,506	2015-Aug-31	
111078-036400US	DRL-032380 US PROV	Seabed Drilling System	US	62/137,667	2015-Mar-24	
111078-037700US	DRL-032395 US	Ram Gap Detection from Choke/Kill Port	US			