

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5387128

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
TRICAN COMPLETION SOLUTIONS LTD.		07/12/2016
RECEIVING PARTY DATA		
Name:	DRECO ENERGY SERVICES ULC	
Street Address:	1000, 800 - 6TH AVENUE SW	
City:	CALGARY, AB	
State/Country:	CANADA	
Postal Code:	T2P 3G3	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	15562832	
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DATE SIGNED:	02/21/2019	
Total Attachments: 6		
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ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, **TRICAN COMPLETION SOLUTIONS LTD.**, having its place of business at 2900, 645 – 7th Avenue SW, Calgary, AB, T2P 4G8 (“Assignor”), does hereby SELL, ASSIGN, AND TRANSFER to **DRECO ENERGY SERVICES ULC**, having a place of business at 1000, 800 - 6th Avenue SW, Calgary, AB T2P 3G3 (“Assignee”), its entire worldwide right, title, and interest in and to:

Any and all inventions which are the subject matter of the patents and patent applications set out in Schedule A (the “Patents”), and

All patents and patent applications which have been or may be issued or filed in the United States or any other country throughout the world for such inventions, including the Patents and any and all divisionals, reissues, continuations, and extensions thereof, and all rights to claim priority based on the Patents.

The Assignor further:

AUTHORIZES AND REQUESTS the issuing authority to issue any and all patents in the United States and all other countries throughout the world for such inventions and the Patents to the Assignee; and

COVENANTS, when reasonably requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment; to execute all rightful oaths, declarations, assignments and other papers necessary to perfect the rights hereby transferred to the Assignee and vest title to the Patents in the Assignee.

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

[Signature page follows]

TRICAN COMPLETION SOLUTIONS LTD.
as Assignor

Date July 12, 2016

By: [Signature]

Name: Andrew S. Bushnell

Title: VP Completion Solutions

Witness: [Signature]

Name: Mike Galkhrist

Title: Legal Counsel

Date: July 12, 2016

ACKNOWLEDGED BY:

DRECO ENERGY SERVICES ULC
as Assignee

By: _____

Name: _____

Title: _____

Date: _____

Witness: _____

Name: _____

Title: _____

Date: _____

TRICAN COMPLETION SOLUTIONS LTD.
as Assignor

Date _____, 2016

By: _____

Name:

Title:

Witness: _____

Name:

Title:

Date:

ACKNOWLEDGED BY:

DRECO ENERGY SERVICES ULC
as Assignee

By: Trevor B. Martin

Name: Trevor B. Martin

Title: Vice President

Date: July 13, 2016

Witness: Vincent J. Gillespie

Name: Vincent J. Gillespie

Title: Assistant Secretary

Date: July 13, 2016

Schedule A**Patents**

Country	Title	Filing Date	Application No.	Patent No.
US	BPS with Dissolvable Barrier	21-Jan-15	62/105,993	
US	Burst Port Sub with Dissolvable Barrier	21-Jan-16	15/002,702	
Norway	Burst Port Sub with Dissolvable Barrier	21-Jan-16	20160108	
CA	Burst Port Sub with Dissolvable Barrier	20-Jan-16	2,918,299	
US	Disc/Knife Type Flotation Collar	27-Aug-15	62/201,778	
US	Encoding Dart	8-Jul-15	14/794,066	
Norway	Expandable and Drillable Landing Seat	10-Feb-14	20140164	
US	Flow Control Downhole Tool	28-May-15	14/724,051	
Norway	Flow Control Downhole Tool	3-Jun-14	20140691	
PCT	Flow-Actuated Pressure Equalization Valve and Method of Use	31-Mar-15	PCT/CA2015/050259	
US	Indexing Dart	9-Jun-15	14/734,954	
US	Liner Hanger – Use Metal with Low Melting Temperature, such as Bismuth Alloy to Form a	10-May-15	62/237,080	

	Seal between a liner and a casing			
PCT	Multi-Functional Dual Direction J-Slot Tool	In progress - Due June 11, 2016 Stems from U.S. Provisional Patent Application No. 62/174,370		
PCT	Multi-Functional Dual Direction J-Slot Tool	In progress – Due June 11, 2016		
US	Multi-Functional Dual Direction J-Slot Tool	11-Jun-15	62/174,370	
US	Multi-Stage Frac System with Sand Screen	4-Sep-15	62/214,843	
US	Single trip – through drill pipe proppant fracturing method for multiple cemented-in frac sleeves	5-Dec-14	62/088,101	
US	Single trip – through drill pipe proppant fracturing method for multiple cemented-in frac sleeves	7-Dec-15	14/961,097	
Canada	Single trip – through drill pipe proppant fracturing method for multiple cemented-in frac sleeves	7-Dec-15	2,914,177	
Norway	Single trip – through drill pipe proppant fracturing method for multiple cemented-in frac sleeves	7-Dec-15	20151666	
Denmark	Single trip – through drill pipe proppant fracturing method for multiple	7-Dec-15	PA201500786	

	cemented-in frac sleeves			
Great Britain	Single trip – through drill pipe proppant fracturing method for multiple cemented-in frac sleeves	7-Dec-15	1521517.1	
US	System for Placing a Tracer in a Well	11-Dec-15	14/967,013	
PCT	System for Resealing Borehole Access	8-Apr-16	PCT/CA2016/050409	
US	System for Resealing Borehole Access	8-Apr-15	14/681,681	