#### 504807158 03/06/2018

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
DOUGLAS KINSELLA	02/09/2018
TROY LORENSON	02/08/2018
KEVIN LEROUX	02/08/2018
DWAYNE PARENTEAU	02/08/2018

### **RECEIVING PARTY DATA**

Name:	IMPULSE DOWNHOLE SOLUTIONS LTD.		
Street Address:	ess: 10155-102 STREET, SUITE 2700		
City:	y: EDMONTON		
State/Country:	CANADA		
Postal Code: T5J 4G8			

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number			
Application Number:	15757914			

#### **CORRESPONDENCE DATA**

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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.

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WILSON LUE LLP **Correspondent Name:** 

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ATTORNEY DOCKET NUMBER:	3428-23
NAME OF SUBMITTER:	JENNA L. WILSON
SIGNATURE:	/Jenna L. Wilson/
DATE SIGNED:	03/06/2018

#### **Total Attachments: 7**

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**PATENT** REEL: 045125 FRAME: 0134 504807158

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PATENT REEL: 045125 FRAME: 0135

#### WORLDWIDE ASSIGNMENT

WHEREAS, I/WE, (hereinafter referred to as the "ASSIGNOR(S)"):

Douglas Kinsella of 10155-102 Street, Suite 2700, Edmonton, AB T5J 4G8, Canada; Troy Lorenson of 10155-102 Street, Suite 2700, Edmonton, AB T5J 4G8, Canada; Kevin Leroux of 10155-102 Street, Suite 2700, Edmonton, AB T5J 4G8, Canada; and Dwayne Parenteau of 10155-102 Street, Suite 2700, Edmonton, AB T5J 4G8, Canada

am an/are inventor(s) of inventions ("Inventions") for which one or more applications for patent, design registration, utility model registration, or other form of protection, rights, or title have been or will be made in certain countries ("Applications"), as further described in **Schedule A** hereto;

AND WHEREAS, **IMPULSE DOWNHOLE SOLUTIONS LTD.**, (hereinafter referred to as the "ASSIGNEE"), a company organized under the laws of the Province of Alberta, Canada, having a place of business at 10155-102 Street, Suite 2700, Edmonton, AB T5J 4G8, Canada, is desirous of acquiring the full and exclusive right, title and interest in and to said Invention, said Applications inclusive of all ancillary rights relating thereto, any and all priority rights derived from said Applications, and all patents, design registrations, utility model registrations and other forms of protection, rights and titles relating to said Invention, in any country or countries and in respect of the whole or any part or parts of or improvements to the Invention;

NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR(S) does/do hereby confirm that ASSIGNOR(S) has/have transferred, conveyed and assigned, and by way of further assurance does/do hereby transfer, convey and assign, any and all of ASSIGNOR(S)'s respective rights, title and interest in and to: the Invention; the Applications; inclusive of any and all priority rights, including the right to claim priority, derived from the Applications; any further applications for patent, design registration, utility model registration or other forms of protection, rights or titles for the whole or any part or parts of or improvements to the Invention in any country or countries ("Further Applications") together with the right to file divisional applications, substitute applications and continuation applications of any one or more of the Applications and Further Applications ("Divisionals"); the right to obtain patents, design registrations, utility model registrations and all other forms of protection, rights and titles relating to the Invention; the right in and to any patent or reissue patent relating to the Applications, Further Applications and Divisionals ("Grants"); and the right to obtain any extensions / supplementary protection certificates ("Extensions"); together with the right to bring proceedings to recover damages and/or to obtain other remedies for acts committed in respect of one or more of the aforesaid Invention, Applications, Grants, Further Applications, Divisionals and Extensions, whether such acts are committed before or after the date of this Worldwide Assignment; with the intent that the Invention, Applications, Grants, Further Applications, Divisionals and Extensions are owned and enjoyed by ASSIGNEE absolutely to the full end of the term or terms for same.

ASSIGNOR(S) does/do hereby agree, upon request, to provide assistance and to execute any and all further documents, at the expense of ASSIGNEE and/or its successors and assigns (as

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applicable), which may be necessary or desirable to enable ASSIGNEE, and/or its successors and assigns (as applicable), to file, prosecute, bring proceedings and take other actions with respect to any and all of the Invention, Applications, Further Applications, Divisionals, Grants and Extensions, and any and all patents and registrations granted thereon and other forms of protection, rights and titles relating thereto, and ASSIGNOR(S) further agrees/agree to execute, upon request and at the expense of ASSIGNEE and/or its successors and assigns (as applicable), any and all further documents which may be necessary or desirable to vest or perfect the title of ASSIGNEE therein.

ASSIGNOR(S) does/do hereby authorize ASSIGNEE or its patent agents or attorneys to insert, above, the jurisdictions, application numbers, filing dates and any other indicia identifying the Applications when such information is available for the purpose of recording this assignment.

ASSIGNOR(S) does/do hereby authorize and request The Commissioner of Patents or any equivalent authority to issue to ASSIGNEE each and every patent, registration and other form of protection, right, and title granted upon the Applications, Further Applications, Divisionals and Extensions.

THIS WORLDWIDE ASSIGNMENT shall inure to the benefit of ASSIGNEE and its successors and assigns, and shall be binding upon ASSIGNOR(S) and their successors and permitted assigns.

DELIVERY of this Worldwide Assignment by copy, however transmitted, constitutes valid and effective delivery. This Worldwide Assignment may be executed in one or more counterparts, each of which when so executed and delivered shall be an original, and such counterparts shall together constitute one and the same instrument.

Date: FEB 9, 2018

Inventor Name:

Douglas Kinsella

Inventor Address: 10155-102 Street, Suite 2700

Edmonton, AB T5J 4G8, Canada

# STATEMENT BY WITNESS

I. JULIA KINSEUA

whose full Post Office address is

STVRGEON COUNTY, AB (Address of Wimess)

hereby declare that I was personally present and did see the above named person, personally known to me to be the person named in the assignment, duly sign and execute the same.

(Signature of Witness)

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Date:	12b	8/201	ی
		1	

Inventor Name:

Troy Lorenson

Inventor Address: 10155-102 Street, Suite 2700

Edmonton, AB T5J 4G8, Canada

# STATEMENT BY WITNESS

I, _	SHE	NOIL	ME	1C2001E	<u> IL</u>		whose	full	Post	Office	address	is
	4,				٠							
	79au	1400	WIE.	Nul.	EN	10VTO	W.A	Q	7	-SC	279	

(Address of Witness)

hereby declare that I was personally present and did see the above named person, personally known to me to be the person named in the assignment, duly sign and execute the same.

Date: 08-FEB-2018

(Signature of Witness)

Date: Feb 8 2018

Inventor Name:

Kevin Leroux

Inventor Address: 10155-102 Street, Suite 2700

Edmonton, AB T5J 4G8, Canada

STATEMENT BY WITNESS

MDEW DICKSON, whose full Post Office address is

12942 123 ST No COMONTON, AB
(Address of Witness)

hereby declare that I was personally present and did see the above named person, personally known to me to be the person named in the assignment, duly sign and execute the same.

Date: FCB. 8, 2018

(Signature of Witness)

Date: <u>08/02/20</u>/4

Inventor Name:

Dwayne Parenteau

Inventor Address: 10155-102 Street, Suite 2700

Edmonton, AB T5J 4G8, Canada

## STATEMENT BY WITNESS

I, SHELDON MACOONELL, whose full Post Office address is

7811 148 AVE NW, EDMONTON, AR TECZTS

hereby declare that I was personally present and did see the above named person, personally known to me to be the person named in the assignment, duly sign and execute the same.

Date: 8-FEB-7018

(Signature of Witness)

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# **SCHEDULE A**

Atty Ref	Office	Serial Number	Filing Date	Title
3248-2	US	62/207,679	20 Aug 2015	DOWNHOLE ASSEMBLIES FOR USE
				IN DRILLING STRINGS
3248-3	US	62/205,655	14 Aug 2015	BALL ACTIVATION OF MOTOR AND
				FRICTION TOOL
3248-4	US	62/220,859	18 Sep 2015	BALL ACTIVATION OF MOTOR AND
				FRICTION TOOL
3248-7	WO	PCT/CA2016/050794	7 Jul 2016	LATERAL DRILLING METHOD
3248-8	WO	PCT/CA2016/050950	12 Aug 2016	SELECTIVE ACTIVATION OF MOTOR
				IN A DOWNHOLE ASSEMBLY
3248-9	WO	PCT/CA2016/050988	22 Aug 2016	ON-BOTTOM DOWNHOLE BEARING
				ASSEMBLY
3248-10	WO	PCT/CA2016/051096	19 Sep 2016	SELECTIVE ACTIVATION OF MOTOR
				IN A DOWNHOLE ASSEMBLY AND
				HANGER ASSEMBLY
3248-15	CA		7 Jul 2016	LATERAL DRILLING METHOD
		(NPE of 3248-7)		
3248-16	CA		12 Aug 2016	SELECTIVE ACTIVATION OF MOTOR
		(NPE of 3248-8)		IN A DOWNHOLE ASSEMBLY
3248-17	CA		19 Sep 2016	SELECTIVE ACTIVATION OF MOTOR
		(NPE of 3248-10)		IN A DOWNHOLE ASSEMBLY AND
				HANGER ASSEMBLY
3248-18	EPO		7 Jul 2016	LATERAL DRILLING METHOD
		(RPE of 3248-7)		
3248-19	AU		7 Jul 2016	LATERAL DRILLING METHOD
		(NPE of 3248-7)		
3248-20	US		7 Jul 2016	LATERAL DRILLING METHOD
		(CON of 3248-7)		
3248-21	US		12 Aug 2016	SELECTIVE ACTIVATION OF MOTOR
		(371 of 3248-8)		IN A DOWNHOLE ASSEMBLY
3248-22	US		22 Aug 2016	ON-BOTTOM DOWNHOLE BEARING
		(371 of 3248-9)		ASSEMBLY
3248-23	US		19 Sep 2016	SELECTIVE ACTIVATION OF MOTOR
		(371 of 3248-10)		IN A DOWNHOLE ASSEMBLY AND
				HANGER ASSEMBLY

PATENT REEL: 045125 FRAME: 0142