

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6594356

| | |
|---|----------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| TROY LORENSEN | 02/10/2020 |
| KEVIN LEROUX | 02/10/2020 |
| DWAYNE PARENTEAU | 02/10/2020 |
| DOUGLAS KINSELLA | 02/10/2020 |
| RECEIVING PARTY DATA | |
| Name: | IMPULSE DOWNHOLE SOLUTIONS LTD. |
| Street Address: | 5120 - 67 AVENUE, N.W. |
| City: | EDMONTON |
| State/Country: | CANADA |
| Postal Code: | T6B 3N9 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 17197896 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <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: | 416-543-6428 |
| Email: | docketing@wilsonlue.com |
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| Address Line 1: | 250 UNIVERSITY AVENUE, 5TH FLOOR |
| Address Line 4: | TORONTO, CANADA M5H 3E5 |
| ATTORNEY DOCKET NUMBER: | 3428-41 |
| NAME OF SUBMITTER: | JENNA L. WILSON |
| SIGNATURE: | /Jenna L. Wilson/ |
| DATE SIGNED: | 03/10/2021 |
| Total Attachments: 4 | |
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| source=200210_Impulse Worldwide Assignment (Flow-Through Family)#page2.tif | |
| source=200210_Impulse Worldwide Assignment (Flow-Through Family)#page3.tif | |

PATENT ASSIGNMENT

This Patent Assignment is between each individual listed in the table below as an assignor ("Assignor"), and the individual or entity listed in the table below as an assignee ("Assignee").

Assignor

| | |
|-----------------|--|
| Name: | Troy LORENSON |
| Address: | 5120 – 67 Avenue, N.W., Edmonton, AB T6B 3N9, Canada |
| Name: | Kevin LEROUX |
| Address: | 5120 – 67 Avenue, N.W., Edmonton, AB T6B 3N9, Canada |
| Name: | Dwayne PARENTEAU |
| Address: | 5120 – 67 Avenue, N.W., Edmonton, AB T6B 3N9, Canada |
| Name: | Douglas KINSELLA |
| Address: | 5120 – 67 Avenue, N.W., Edmonton, AB T6B 3N9, Canada |

Assignee

| | |
|-----------------|--|
| Name: | IMPULSE DOWNHOLE SOLUTIONS LTD. |
| Address: | 5120 – 67 Avenue, N.W., Edmonton, AB T6B 3N9, Canada |
| Type: | an Alberta corporation |

The Assignor is an inventor of one or more inventions or improvements (each, an "Invention") for which one or more applications for patent, design registration, utility model registration, or other form of protection, right or title has been or will be made or for which one or more patents has been granted, as further described in the table below (each, an "Application").

Applications

| | | | |
|----------------------|--|-------------------------|-------------------|
| Title: | FLOW-THROUGH PULSING ASSEMBLY FOR USE IN DOWNHOLE OPERATIONS | | |
| Jurisdiction: | WIPO | Number: | PCT/CA2017/050828 |
| Filing Date: | July 7, 2017 | Attorney Docket: | 3428-0013 |
| Title: | FLOW-THROUGH PULSING ASSEMBLY FOR USE IN DOWNHOLE OPERATIONS | | |
| Jurisdiction: | US | Number: | 16/241,029 |
| Filing Date: | July 7, 2017 | Attorney Docket: | 3428-0025 |
| Title: | FLOW-THROUGH PULSING ASSEMBLY FOR USE IN DOWNHOLE OPERATIONS | | |
| Jurisdiction: | CA | Number: | 3,029,872 |
| Filing Date: | July 7, 2017 | Attorney Docket: | 3428-0027 |
| Title: | FLOW-THROUGH PULSING ASSEMBLY FOR USE IN DOWNHOLE OPERATIONS | | |
| Jurisdiction: | EP | Number: | 17823382.1 |
| Filing Date: | July 7, 2017 | Attorney Docket: | 3428-0028 |
| Title: | FLOW-THROUGH PULSING ASSEMBLY FOR USE IN DOWNHOLE OPERATIONS | | |
| Jurisdiction: | AU | Number: | 2017292912 |
| Filing Date: | July 7, 2017 | Attorney Docket: | 3428-0029 |

The Assignee wishes to acquire or has acquired from the Assignor all the Assignor's right, title and interest in and to each Invention throughout the world. For valuable consideration, the parties therefore agree as follows:

1. The Assignor has transferred, conveyed and assigned, and, by way of further assurance, hereby transfers, conveys and assigns, all the Assignor's worldwide:
 - (a) right, title and interest in and to each Invention and Application;
 - (b) right, title and interest in and to any further applications, divisional applications, substitute applications and continuation applications for patent, design registration, utility model registration, or other forms of protection, right or title for all or part of each Invention ("Further Application");
 - (c) right, title and interest in and to each patent, design registration, utility model registration and all other form of protection, right and title relating to each Invention ("Registration");
 - (d) right, title and interest in and to any extension/supplementary protection certificate ("Extension") relating to each Invention;
 - (e) right to apply for each Application, Further Application and Extension;
 - (f) right to claim priority based on the filing date of each Application and Further Application; and
 - (g) right to bring proceedings to recover damages and/or to obtain other remedies for any act committed in respect of each Invention, Application, Registration, Further Application, and Extension, whether such act is committed before or after the date of this Patent Assignment.
2. At the request and expense of the Assignee, the Assignor shall promptly:
 - (a) provide assistance and execute any further documents which may be necessary or desirable to enable the Assignee to file, prosecute, bring proceedings and take other actions with respect to each Invention, Application, Further Application, Grant and Extension, and each patent and registration granted thereon and other forms of protection, right and title relating thereto, and
 - (b) execute each further document which may be necessary or desirable to vest or perfect the title of the Assignee in each Application, Further Application, Grant and Extension.
3. The Assignor authorizes the Assignee and the Assignee's patent agents or attorneys to insert, above, the jurisdictions, application or serial numbers, filing dates and any other indicia identifying each Application, Further Application, Registration and Extension when such information is available for the purpose of recording this Patent Assignment.
4. The Assignor authorizes and requests The Commissioner of Patents or any equivalent authority to issue to the Assignee each patent, registration and other form of protection, right, and title granted upon each Application, Further Application, and Extension.
5. This agreement shall inure to the benefit of the Assignee and the Assignee's successors and assigns, and shall be binding upon the Assignor and the Assignor's successors and permitted assigns.
6. Delivery of this agreement by copy, however transmitted, constitutes valid and effective delivery. This agreement may be executed in one or more counterparts, each of which when so executed and delivered shall be deemed an original, and such counterparts shall together be deemed to constitute one and the same instrument.
7. This agreement is signed on the dates shown in the signature pages below.

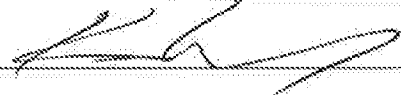
Troy LORENSON

Date: Feb 10/2020 At: 5120 - 67 AVE EDM, AB

Signature: 

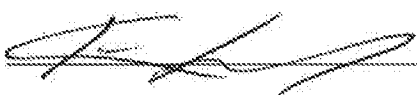
Witnessed by

Name: Kevin Leroux

Signature: 

Kevin LEROUX

Date: Feb 10/2020 At: 5120 - 67 AVE EDM, AB

Signature: 


Witnessed by

Name: Troy Lorensen

Signature: 

Dwayne PARENTEAU

Date: Feb 10/2020 At: 5120 - 67 AVE EDM, AB

Signature: 


Witnessed by

Name: Kevin Leroux

Signature: 

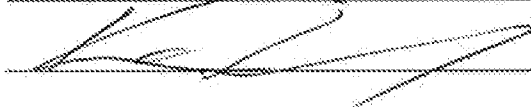
Douglas KINSELLA

Date: FEB 10/2020 At: 5120 - 67 AVE EDMONTON, AB

Signature: 

Witnessed by

Name: Kevin Leroux

Signature: 

IMPULSE DOWNHOLE SOLUTIONS LTD.

By

Name:

TROY Lorensen

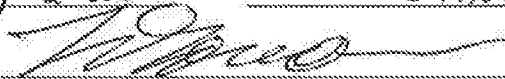
Title:

Vice President

Date:

Feb 11/2020 At 5120-67 Ave Edm, AB

Signature:



Witnessed by

Name:

Kevin Leroux

Signature:

