

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4739938

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ALEXANDER DOWN	11/17/2017
AARON LOGAN	11/17/2017
THEUNIS VAN SCHALKWYK	11/17/2017
ROSTYSLAV KUCHMA	11/17/2017
MOJTABA KAZEMI MIRAKI	11/16/2017
RECEIVING PARTY DATA	
Name:	PHOENIX TECHNOLOGY SERVICES INC.
Street Address:	1400 - 250 2ND STREET SW
City:	CALGARY, ALBERTA
State/Country:	CANADA
Postal Code:	T2P 0C1
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15844972
CORRESPONDENCE DATA	
Fax Number:	(604)681-4081
<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:	(604)669-3432
Email:	gkuroyama@patentable.com
Correspondent Name:	OYEN WIGGS GREEN & MUTALA LLP
Address Line 1:	480 - THE STATION, 601 W. CORDOVA ST.
Address Line 4:	VANCOUVER, CANADA V6B 1G1
ATTORNEY DOCKET NUMBER:	P789 0002/GNM
NAME OF SUBMITTER:	GAVIN N. MANNING
SIGNATURE:	/GavinNManning/
DATE SIGNED:	12/18/2017
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 8	

source=Executed Confirmation of Assignment - to Phoenix Technology Services Inc. (12118973x9EE5F)#page1.tif
source=Executed Confirmation of Assignment - to Phoenix Technology Services Inc. (12118973x9EE5F)#page2.tif
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**CONFIRMATION OF OWNERSHIP AND CONFIRMATORY ASSIGNMENT OF
INVENTION AND RELATED PATENT RIGHTS**

WHEREAS THE FOLLOWING PERSON OR PERSONS:

Alexander DOWN

608 – 1118 12 Ave SW
Calgary, Alberta, T2R 0P4
CA

Aaron LOGAN

48 Slocan Road SW
Calgary, Alberta,
T2W 0S8

Theunis VAN SCHALKWYK

35 Wolfwillow Lane
Calgary, Alberta, T3Z 1B4
CA

Rostyslav KUCHMA

534 Copperfield Blvd SE
Calgary, Alberta, T2Z 4C6
CA

Mojtaba KAZEMI MIRAKI

135 Sherwood Hill NW
Calgary, Alberta, T3R 0B3
CA

each an Assignor, is the inventor or a co-inventor if more than one Assignor is named, of certain inventions or improvements (the "Invention(s)") described and/or claimed in:

- United States patent application No. 62/440617 filed 30 December 2016 entitled DOWNHOLE RECEPTION AND TRANSMISSION OF ELECTROMAGNETIC DATA TELEMETRY SIGNALS;
- United States Patent Application No. 15/844972 filed 18 Dec. 2017 entitled DOWNHOLE RECEPTION AND TRANSMISSION OF ELECTROMAGNETIC DATA TELEMETRY SIGNALS; and,
- Canada Patent Application No. _____ filed _____ entitled DOWNHOLE RECEPTION AND TRANSMISSION OF ELECTROMAGNETIC DATA TELEMETRY SIGNALS (the "Application(s)");

AND WHEREAS, **Phoenix Technology Services INC.** (the "Assignee(s)"), whose address is 1400 - 250 2nd Street SW, Calgary, Alberta, T2P 0C1, Canada, has acquired the entire worldwide right, title, and interest in and to: the Invention(s), the Application(s), and all patents which may be granted on or as a result thereof in all countries, by way of assignments dated January 2017;

In consideration of ONE (\$1.00) DOLLAR and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, each Assignor confirms that Assignee(s) is the owner of all right, title and interest in and to the Invention(s) and the Application(s) and, for greater certainty, to the full extent that he or she has not done so previously, he or she does hereby sell, assign, transfer, and set over to the Assignee(s) the entire right, title, and interest in and to:

- the Invention(s);
- the Application(s);
- all national phase applications arising from the Application(s);

- all continuations, divisions, renewals of, or substitutes for the Application(s);
- the right to file counterparts to the Application(s) in all countries and regions;
- the right to claim priority from the Application(s) in all countries and regions;
- each and every additional application that claims any part of the Inventions;
- each and every additional application that is in any way based on or claims priority from or corresponds to the Application(s);
- all patents which may be granted on or as a result thereof;
- any reissue or reissues of such patents; and
- all causes of action and rights to bring suit for past, present, and future infringement thereof and all claims for and rights to collect damages, profits, and all other remedies and relief in respect thereof, including other compensation in respect of pre-grant activities;

the same to be owned by the Assignee(s), its successors, assigns, nominees, or legal representatives, for the full term or terms of the patents entirely as the same would have been owned by the Assignor(s), had this Assignment, sale, and transfer not been made.

Each Assignor hereby covenants that he or she: has full right to convey the entire interest herein assigned; and has not executed and will not execute any agreement to transfer any rights in the Invention(s) and/or the Application(s) to anyone other than the Assignee(s) or that is otherwise in conflict herewith.

Each Assignor promises that he or she shall do everything reasonably possible to aid the Assignee(s), its successors, assigns, nominees, and legal representatives to obtain and enforce for its or their own benefit, proper patent protection for the Invention(s) in all countries and regions including without limitation:

- each time a request is made and without undue delay, execute and deliver all lawful papers relating to the Invention(s) including without limitation:
 - all such papers as may be necessary or desirable to perfect the title to the Invention(s), the Application(s), and the patents in the Assignee, its successors, assigns, nominees, or legal representatives;
 - all such papers including, without limitation, rightful oaths and declarations, that the Assignee considers to be necessary or desirable for use in: prosecution of the Application(s); interference proceedings involving the Application(s) or patents; oppositions involving the Application(s) or patents; applications to reissue or re-examine the patents; disclaimers related to the Application(s) or patents; or filing additional applications to protect the Invention(s) in any country;
- communicate to the Assignee, or its nominees, all known facts respecting the Invention(s), the Application(s), and the patents and assist in the ascertainment of facts and the production of evidence relating to the Invention(s), the Application(s), or the patents; and
- testify in any legal proceedings;

all at the expense, however, of the Assignee or its successors, assigns, nominees, or legal representatives.

Each Assignor hereby irrevocably designates and appoints the Assignee and its duly authorized officers and agents, and their successors, as his or her agents and attorneys-in-fact, to act on the Assignor(s)'s behalf and instead of the Assignor(s), to execute and file applications to patent the Invention(s) in all countries, and to do all other proper lawfully permitted acts to further the assignment, prosecution, and issuance of patents for the Invention(s) with the same legal force and effect as if executed by the Assignor(s). This power of attorney shall be deemed coupled with an interest and is irrevocable.

Each Assignor hereby authorizes and requests any official of any country or countries whose duty it is to issue patents on applications to issue to the Assignee, its successors, assigns, nominees, or legal representatives all patents for the Invention(s) in accordance with the terms of this Confirmatory Assignment.

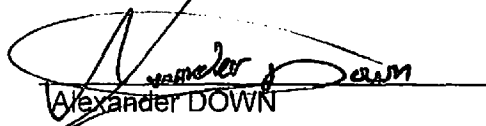
Declarations of Assignor(s) for United States

Each Assignor hereby declares that:

1. The above-identified Application(s) was made or authorized to be made by me;
2. I believe that I am the original inventor or an original joint inventor of a claimed invention in the Application(s); and
3. I hereby acknowledge that any willful false statement made in this Declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Each Assignor authorizes Oyen Wiggs Green & Mutala LLP to insert the application serial number and filing date in the text above when such information becomes available.

EXECUTED at CALGARY AB this 17 day of NOVEMBER 20 17
(place of signature)


Alexander DOWN

Witnessed by: Eric Toffin

Printed Name: ERIC TOFFIN

.....

EXECUTED at Cary this 17th day of November 2017
(place of signature)

[Signature]
Aaron Logan

Witnessed by: [Signature]

Printed Name: CRAIG DROWN

EXECUTED at _____ this _____ day of _____ 20____
(place of signature)

Theunis VAN SCHALKWYK

Witnessed by: _____

Printed Name: _____

EXECUTED at _____ this _____ day of _____ 20____
(place of signature)

Rostyslav KUCHMA

Witnessed by: _____

Printed Name: _____

EXECUTED at _____ this _____ day of _____ 20____
(place of signature)

Mojtaba KAZEMI MIRAKI

Witnessed by: _____

Printed Name: _____


EXECUTED at _____ this _____ day of _____ 20 _____
(place of signature)

Aaron Logan

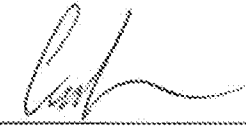
Witnessed by: _____

Printed Name: _____

EXECUTED at Cabareg this 17th day of November 20 17
(place of signature)



Theunis VAN SCHALKWYK

Witnessed by: 

Printed Name: CRAIG Blair

EXECUTED at _____ this _____ day of _____ 20 _____
(place of signature)

Rostyslav KUCHMA

Witnessed by: _____

Printed Name: _____

EXECUTED at _____ this _____ day of _____ 20 _____
(place of signature)

Mojtaba KAZEMI MIRAKI

Witnessed by: _____

Printed Name: _____

EXECUTED at _____ this _____ day of _____ 20 _____
(place of signature)

Aaron Logan

Witnessed by: _____

Printed Name: _____

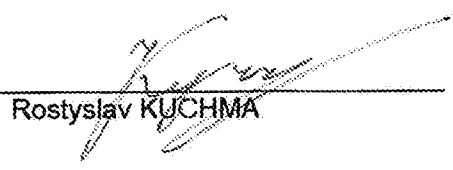
EXECUTED at _____ this _____ day of _____ 20 _____
(place of signature)

Theunis VAN SCHALKWYK

Witnessed by: _____

Printed Name: _____

EXECUTED at Calgary this 17 day of November 20 17
(place of signature)



Rostyslav KUCHMA

Witnessed by:  _____

Printed Name: CRAIG BRENN

EXECUTED at _____ this _____ day of _____ 20 _____
(place of signature)

Mojtaba KAZEMI MIRAKI

Witnessed by: _____

Printed Name: _____

EXECUTED at _____ this _____ day of _____ 20 _____
(place of signature)

Aaron Logan

Witnessed by: _____

Printed Name: _____

EXECUTED at _____ this _____ day of _____ 20 _____
(place of signature)

Theunis VAN SCHALKWYK

Witnessed by: _____

Printed Name: _____

EXECUTED at _____ this _____ day of _____ 20 _____
(place of signature)

Rostyslav KUCHMA

Witnessed by: _____

Printed Name: _____

EXECUTED at Calgary, AB this 16 day of November 20 17
(place of signature)

Mojtaba KAZEMI MIRAKI

Witnessed by: _____

Printed Name: _____

STATEMENT OF ACCEPTANCE

The foregoing Assignment is hereby accepted by the Assignee(s):

Phoenix Technology Services INC.

By: _____

Name: _____

Title: _____