

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT6221794

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MUHAMMAD HANIF	06/03/2019
HA HOANG NGUYEN	06/03/2019
RECEIVING PARTY DATA	
Name:	UNIVERSITY OF SASKATCHEWAN
Street Address:	250-15 INNOVATION BLVD
City:	SASKATOON, SK
State/Country:	CANADA
Postal Code:	S7N 2X8
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16940708
CORRESPONDENCE DATA	
Fax Number:	(301)762-4056
<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:	301-424-3640
Email:	mail@usiplaw.com
Correspondent Name:	D. ANDREW FLOAM
Address Line 1:	9801 WASHINGTONIAN BLVD.
Address Line 2:	SUITE 750
Address Line 4:	GAITHERSBURG, MARYLAND 20878
ATTORNEY DOCKET NUMBER:	0370.3940CON/1023061-US03
NAME OF SUBMITTER:	ALBERT J. FASULO II
SIGNATURE:	/Albert J. Fasulo II/
DATE SIGNED:	07/28/2020
Total Attachments: 2	
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ASSIGNMENT

WHEREAS, I/we the undersigned inventor(s) (hereinafter "ASSIGNOR(S)") have invented certain new and useful improvements as set forth in the patent application entitled:

METHODS FOR IMPROVING FLEXIBILITY AND DATA RATE OF CHIRP SPREAD SPECTRUM SYSTEMS IN LORAWAN

which is being filed herewith

which was filed on May 7, 2019 as United States Patent Application No. 62/844,297

(hereinafter the "Application").

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the ASSIGNOR(S):

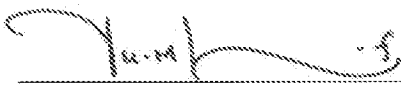
- 1) Hereby confirm that I/we have assigned, transferred and set over, unto the **University of Saskatchewan**, a body corporate duly organized under and pursuant to the laws of Canada, and having its principal place of business at 250-15 Innovation Blvd, Saskatoon, SK, S7N 2X8, Canada (hereinafter "ASSIGNEE") and its successors and assigns, each ASSIGNOR's entire right, title, and interest in, to, and under, the Application and any and all improvements disclosed in the Application, as well as any and all other applications that may be based upon, and patent(s) which may be granted upon, the information that is disclosed in the Application, throughout the World, including without prejudice to the generality of the foregoing:

the right to file applications and to obtain patents or like protection (including, e.g., utility models, inventors' certificates, and/or designs) for the improvements in any country throughout the World, including the right to claim priority from any such application; and any and all provisional, non-provisional, divisional, continuing (whether a continuation or a continuation in part), substitute, renewal, reissue, and other applications for Letters Patent which have been or shall be filed in any country on any of the improvements; and in and to all original and reissued patents which have been or shall be filed in any country on any of the improvements;

- 2) Authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, as applicable, to issue the same to ASSIGNEE and its successors and assigns, in accordance with the terms of the instrument;
- 3) Covenant and agree, when requested and at no charge to, but at the expense of, ASSIGNEE and its successors and assigns, to: execute all applications for the improvements (including without

limitation any and all provisional, non-provisional, divisional, continuing (whether a continuation or a continuation in part), substitute, renewal, reissue, and other patent applications); execute all rightful oaths, assignments, powers of attorney and other papers; communicate to ASSIGNEE, its successors, assigns, and legal representatives, all facts known to the undersigned relating to the improvements and the history thereof; and perform any acts that ASSIGNEE, its successors, assigns or legal representatives consider reasonably necessary for securing and maintaining proper patent protection for the improvements, for vesting title to the improvements and all patent applications and patents for the improvements, in ASSIGNEE and its successors and assigns, and for enforcing the rights of ASSIGNEE and its successor and assigns, in and to any or all of the improvements and any application(s) or patent(s) therefor;

- 4) Covenant and agree that I/we have/had full right to convey the entire interest assigned, and that I/we have not executed, and will not execute, any agreement in conflict herewith.
- 5) Covenant and agree that the terms, covenants and conditions of this assignment shall inure to the benefit of ASSIGNEE and its successors and assigns, and shall be binding upon me/us and my/our heirs, assigns, and legal representatives.

Signature:  Date: June 03, 2019
Typed Name: **Muhammad Hanif**
Address: **14-901 Preston Ave, Saskatoon, SK, Canada, S7H 2V3**

Signature:  Date: June 03, 2019
Typed Name: **Ha Hoang Nguyen**
Address: **735 Emerald Bay, Saskatoon, SK, Canada S7J 4E3**