

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5859159

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GUSTAV GERALD VOS	11/14/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SIERRA WIRELESS, INC.
<b>Street Address:</b>	13811 WIRELESS WAY
<b>City:</b>	RICHMOND, BRITISH COLUMBIA
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	V6V 3A4
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16537152
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(713)650-2400
<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>	
<b>Email:</b>	famini@winstead.com, jcawlf@winstead.com
<b>Correspondent Name:</b>	FARHANG AMINI
<b>Address Line 1:</b>	WINSTEAD PC
<b>Address Line 2:</b>	P.O. BOX 131851
<b>Address Line 4:</b>	DALLAS, TEXAS 75313-1851
<b>ATTORNEY DOCKET NUMBER:</b>	45640-P011US
<b>NAME OF SUBMITTER:</b>	FARHANG AMINI, PH.D.
<b>SIGNATURE:</b>	/Farhang Amini/
<b>DATE SIGNED:</b>	12/10/2019
<b>Total Attachments: 5</b>	
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Worldwide Assignment of Invention

This Assignment effective the Reference Date listed herein.

**ASSIGNMENT OF INVENTION – WORLDWIDE**  
(“Assignment”)

Between:

**SIERRA WIRELESS, INC.** incorporated under the laws of Canada, whose head office is located at 13811 Wireless Way, Richmond, British Columbia, V6V 3A4, Canada

(the “Assignee”)

And:

**The Undersigned Inventors Listed in Schedule A**

(the “Inventor”)

**WHEREAS:**

- A. The Assignee is an innovator of wireless technology.
- B. The Assignee has engaged the Inventor to develop intellectual property for the benefit of the Assignee.
- C. The Inventor has invented certain new and useful improvements relating to

**METHOD AND APPARATUS FOR MULTI-TRANSPORT BLOCK GRANT TRANSMISSIONS** for which International Application No. PCT/CA2019/051095 was filed on August 9, 2019; **METHOD AND APPARATUS FOR MULTI-TRANSPORT BLOCK GRANT TRANSMISSIONS** for which United States Patent Application No. 16/536,964 was filed on August 9, 2019; and **METHOD AND APPARATUS FOR MULTI-TRANSPORT BLOCK GRANT TRANSMISSIONS** for which United States Patent Application No. 16/537,152 was filed on August 9, 2019, (the earliest filing date listed above, hereinafter termed the “Reference Date”)

- D. The Assignee is desirous of acquiring the entire right, title and interest in and to said application(s) and the invention disclosed therein, including all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventor, and in and to any and all patents, inventor’s certificates and other forms of protection thereon granted in Canada, the United States and throughout the world (all collectively hereinafter termed the “Invention”).
- E. The parties wish to confirm the transfer and assignment of the entire right, title, and interest to the Assignee.

**NOW THEREFORE, IN CONSIDERATION** of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Inventor hereby:

- 1. **Sells, transfers and assigns** to the Assignee the Inventor’s entire right, title and interest in Canada, United States and throughout the world in and to:

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- (a) the Invention and any and all applications, both Canadian and foreign, which the Inventor or Assignee, may file, either solely or jointly with others, on the Invention (the "Applications");
  - (b) any and all Letters Patent, both Canadian and foreign, which may issue from any of the Applications, including all divisionals, continuations, continuations-in-part, renewals, reissues, substitutions and extensions thereof;
  - (c) all Convention or Treaty rights derived from any of the Applications, including without limitation, all rights of priority in and to the Applications; and
  - (d) the full and complete right to file applications for Letters Patent in the name of the Assignee, or in the Inventor's name(s) at the election of the Assignee, on the Invention throughout the world.
2. Agrees to execute, upon the request and at the expense of the Assignee, any and all documents relating to divisional, continuation, continuation-in part, renewals and substitute applications for the Invention, and any necessary declaration, oath, or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said applications, and any and all applications and other documents for Letters Patent in foreign countries on the Invention that the Assignee deems necessary or expedient. The Inventor also agrees to execute, upon the request and at the expense of the Assignee, any and all documents which may be necessary or desirable to enable the Assignee to prosecute and defend any and all applications for Letters Patent.
3. Grants a power of attorney to the Assignee to execute any and all such documents, declarations, oaths or affidavits referenced in clause (2) of this Assignment that the Inventor is unable or unwilling to execute.
4. Agrees to cooperate with the Assignee upon the request and at the expense of the Assignee, in any proceedings or transactions involving such applications or Letters Patent.
5. Grants to the Assignee and to the firm of MBM Intellectual Property Law LLP, whose full post office address is 555 West Hastings Street, Suite 2610, Vancouver, British Columbia, V6B 4N6, Canada, the power to insert on this Assignment any further information as may be necessary to more particularly identify the Applications, and to correct any clerical error on this Assignment, as may be required by law for the recordation of this document at the patent office of any country throughout the world for which the Assignee seek the recordation of this document.
6. The recitals shall constitute terms of the Assignment.
7. This Assignment may be executed in any number of original counterparts, with the same effect as if all the parties had signed the same document, and will become effective when one or more counterparts have been signed by all of the parties and delivered to each of the parties. All counterparts shall be construed together and evidence only one agreement, which, notwithstanding the dates of execution of any counterparts, shall be deemed to be dated the Reference Date set out above, and only one of which need be produced for any purpose.

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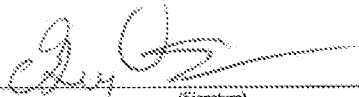
**IN WITNESS WHEREOF** the parties have executed this Assignment with effect as of the Reference Date.

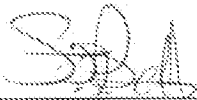
[signature page follows]

**EXECUTION OF ASSIGNMENT OF INVENTION - WORLDWIDE**

**Execution by Inventor #1**

**Witness to Execution of Assignment by Inventor #1**

By:   
(Signature)

Signature of Witness: 

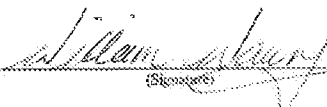
Name: VOS, Gustav Gerald

Name of Witness: STEVEN J. BENNETT

Date: Nov 14, 2019

Richmond, Canada  
(City & Country Where Assignment Executed)

**Acknowledgement of Receipt by SIERRA WIRELESS, INC.**

By:   
(Signature)

Name: WILLIAM WANG

Title: Senior Director, Intellectual Property

Date: 28<sup>th</sup> November 2019

Richmond B.C. Canada  
(City & Country Where Assignment Executed)

(Add additional Execution pages as is needed)

**SCHEDULE A – THE INVENTORS**  
(List Inventors below and indicate end of list with "Z")

NAME OF INVENTOR	ADDRESS OF INVENTOR
VOS, Gustav Gerald	14770 34A Avenue Surrey, British Columbia V4P 0B3 Canada Nationality: Canadian