

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Gustav Gerald Vos</td> <td>01/04/2013</td> </tr> <tr> <td>Ghasem Naddafzadeh Shirazi</td> <td>01/09/2013</td> </tr> <tr> <td>Lutz Hans-Joachim Lampe</td> <td>01/17/2013</td> </tr> <tr> <td>Ramon Khalona</td> <td>01/18/2013</td> </tr> </tbody> </table>		Name	Execution Date	Gustav Gerald Vos	01/04/2013	Ghasem Naddafzadeh Shirazi	01/09/2013	Lutz Hans-Joachim Lampe	01/17/2013	Ramon Khalona	01/18/2013
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Lutz Hans-Joachim Lampe	01/17/2013										
Ramon Khalona	01/18/2013										
RECEIVING PARTY DATA											
Name:	SIERRA WIRELESS, INC.										
Street Address:	13811 Wireless Way										
City:	Richmond, British Columbia										
State/Country:	CANADA										
Postal Code:	V6V 3A4										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13730244</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13730244						
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Application Number:	13730244										
CORRESPONDENCE DATA											
Fax Number:	8586771465										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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Correspondent Name:	Lisa A. Haile										
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ATTORNEY DOCKET NUMBER:	MBM1640										
NAME OF SUBMITTER:	Lisa A. Haile, J.D., Ph.D.										
Total Attachments: 7 source=MBM1640Assignment#page1.tif											

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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 SYSTEM FOR HYBRID AUTOMATIC REPEAT REQUEST
COMBINING ON AN LTE DOWNLINK CONTROL CHANNEL**

for which United States Patent Application No. 13/730,244 was filed on December 28, 2012. (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:

- (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 700 - 700 West Pender Street, Vancouver, British Columbia V6C 1G8, 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.

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

By: 
(Signature)

Name: Gustav Gerald VOS

Date: Jan 4, 2013

Richmond, Canada
(City & Country Where Assignment Executed)

Witness to Execution of Assignment by

Inventor #1

Signature of Witness: 

Name of Witness: STEVEN J. BENNETT

Acknowledgement of Receipt by SIERRA
WIRELESS, INC.

By: 
(Signature)

Name: WILLIAM WANG

Title: DIRECTOR, INTELLECTUAL PROPERTY

Date: 24th January 2013

RICHMOND, B.C. CANADA
(City & Country Where Assignment Executed)

EXECUTION OF ASSIGNMENT OF INVENTION - WORLDWIDE

Execution by Inventor #2

By: 
(Signature)

Name: Ghasem NADDAFZADEH SHIRAZI

Date: 01/09/2013

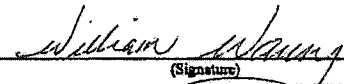
Vancouver, Canada
(City & Country Where Assignment Executed)

**Witness to Execution of Assignment by
Inventor #2**

Signature of Witness: 

Name of Witness: Mohamed Ahmed

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

By: 
(Signature)

Name: WILLIAM WANG

Title: DIRECTOR, INTELLECTUAL PROPERTY

Date: 24th JANUARY 2013

RICHMOND, B.C., CANADA
(City & Country Where Assignment Executed)

EXECUTION OF ASSIGNMENT OF INVENTION - WORLDWIDE

Execution by Inventor #3

By: 
(Signature)

Name: Lutz Hans-Joachim LAMPE

Date: 2013/01/17

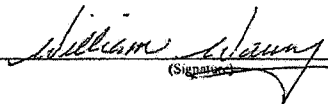
Vancouver, Canada
(City & Country Where Assignment Executed)

**Witness to Execution of Assignment by
Inventor #3**

Signature of Witness: 

Name of Witness: Ghaseem Naddafzadeh Shirazi

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

By: 
(Signature)

Name: WILLIAM WAKING

Title: DIRECTOR, INTELLECTUAL PROPERTY

Date: 24th JANUARY 2013

RICHMOND BC CANADA
(City & Country Where Assignment Executed)

EXECUTION OF ASSIGNMENT OF INVENTION - WORLDWIDE

Execution by Inventor #4

By: *R Khalona*
(Signature)

Name: Ramon KHALONA

Date: 18. Jan. 2013

Carlsbad, CA 92008 USA
(City & Country Where Assignment Executed)

Witness to Execution of Assignment by

Inventor #4

Signature of Witness: *Michael T. Jones*

Name of Witness: Michael T. Jones

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

By: *William Wang*
(Signature)

Name: WILLIAM WANG

Title: DIRECTOR INTELLECTUAL PROPERTY

Date: 24th JANUARY 2013

RICHMOND B.C. CANADA
(City & Country Where Assignment Executed)

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

NAME OF INVENTOR	ADDRESS OF INVENTOR
Gustav Gerald VOS	14770 34A Avenue Surrey, British Columbia V4P 0B3 Canada Citizenship: Canada
Ghasem NADDAFZADEH SHIRAZI	Mailbox # 403 6335 Thunderbird Crescent Vancouver, British Columbia V6T 2G9 Canada Citizenship: Iran
Lutz Hans-Joachim LAMPE	8 - 6388 Hawthorn Lane Vancouver, British Columbia V6T 1Z4 Canada Citizenship: Canada
Ramon KHALONA	3267 Madison Street Carlsbad, California 92008 USA Citizenship: USA

Z