#### 502000324 07/24/2012

# PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Alexei Vladimirovich Davydov	06/18/2012
Gregory Vladimirovich Morozov	06/18/2012
Alexander Alexandrovich Maltsev	06/18/2012
Ilya Bolotin	06/18/2012
Vadim Sergeyevich Sergeyev	06/18/2012

#### **RECEIVING PARTY DATA**

Name:	Intel Corporation
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State/Country:	CALIFORNIA
Postal Code:	95052

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13525509

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NAME OF SUBMITTER: Sal	ally Austin

PATENT REEL: 028626 FRAME: 0705 1352550

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# **Total Attachments: 8**

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# RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 884.K70US1 Patent and Trademark Office To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: Intel Corporation Alexei Vladimirovich Davydov, Gregory Vladimirovich Morozov, Alexander Alexandrovich Maltsev, Ilya Street Address: 2200 Mission College Blvd. Bolotin, Vadim Sergeyevich Sergeyev City: Santa Clara State: CA Zip: 95052 Additional name(s) of conveying party(ies) attached? Country: United States of America Additional name(s) & address(es) attached? [ ]Yes [X]No [ ]Yes [X]No 3. Nature of conveyance: [X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other Execution Date: <u>June 18, 2012, June 18, 2012, June 18, 2012, June 18, 2012</u>, <u>June 18, 2012</u> 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) Serial No. 13/525,509, filed June 18, 2012 Additional numbers attached? [ ]Yes [X]No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41):\$ 40.00 Name: Gregory J. Gorrie []Enclosed [X] Authorized to be charged to deposit account Address: 19-0743 Schwegman, Lundberg & Woessner, P.A. P.O. Box 2938 8. Please charge any additional fees or credit any over Minneapolis, MN 55402--0938 payments to our Deposit Account No.: 19-0743 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. July 24, 2012 Gregory J. Gorrie/Reg. No. 36,530 Name of Person Signing Total number of pages including cover sheet: 8 Mail documents to be recorded with required cover sheet information to: **Commissioner of Patents and Trademarks** 

**Mail Stop Assignment Recordation Services** 

P.O. Box 1450

Alexandria, VA 22313-1450

#### **ASSIGNMENT**

WHEREAS, Alexei Davydov, Gregory Morozov, Alexander Maltsev, ilya Bolotin, Vadim Sergeyev (hereinafter the "Undersigned") has [have] made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on <u>June 18, 2012</u> which application was assigned US patent application serial number 13/525,509 and which is titled EVOLVED NODE B AND METHOD FOR COHERENT COORDINATED MULTIPOINT TRANSMISSION WITH PER CSI-RS FEEDBACK; which are described in a patent application filed on January 27, 2012, which application was assigned US application serial number 61/591,641, and which is titled ADVANCED WIRELESS COMMUNICATION SYSTEMS AND TECHNIQUES.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Intel Corporation (the "Assignee"), a corporation of the State of Delaware, having a place of business at 2200 Mission College Blvd., Santa Clara, CA 95052, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such invention to the Assignee;

Assignment

Assignors: Alexei Vladiminovigh Davydov et al.

Title: EVOLVED NODE B AND METEOD FOR COHERENT COORDINATED MULTIPOINT TRANSMISSION WITH PER CSL-RS FEEDBACK
Page 2 of 7.

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 45457 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

Assignment	Docket No. 884 K 70US) Client Ref. No. P44179 WITH PER CSI-RS
Assignor:	
(Signature): Signature): Signa	
City/State: <u>Mizhny Novgorod, Russian Federation</u> Date:	

Assignment	Docket No. 884 K 70US
Arsignors: Alexei Viadiminovich Gavydov et al.	Client Ref. No. P441 %
Tible: EVOLVED NOOE 9 AND METHOD FOR COHERENT COORDINATED MULTIPOPYT TRANSMISSIC	IN WITH PER CSIAS
FEEDBACK	
Page 4 of 7	

Assignor:

(Signature):\_\_

Name: Gregory Morozov

City/State: Nizhny Novgorod, Russian Federation

Date: <u>JVN& 18, 201</u>2

Assignment Assignors: Alexer Visibility ovich Davydov et al. Title: EVOLVED NODE BAND METHOD FOR COHERENT COORDINATED MULTIPOINT FRANSMISS: FEEDBACK Page 5 of 7	Docket No. 884 E70L Client Ref. No. 944 ION WITH PER CSI-RS
Assignor:	
(Signature):  Name: Alexander Maltsev	

City/State: Nizhny Novgorod, Russian Federation

Title EVOLVED FEEDBACK	i Yladimirevich Davydov et al. NODE B AND METHOD FOR COHERENT COORDINATED MULTIPOT	Docket No. 884/8 701/18 Client Ref. No. P44/7 NT TRANSMISSION WITH PER CSI-RS
Page 6 of 7		
Assignor:		
(Signature):	- Ear	
	Name: <u>liya Bolotin</u>	
	City/State: Nihzny-Novgorod, Russian Federation	

Date: June 18, 2012

Assignment	Dorket No. 884 K 70US
Anni Britania - A Januar Wastlericka dali Prana dan Brana da d	Client Ref. No. P4417
ASSIGNATION NEED NOTE BY AND METHOD FOR COHERENT COORDINATED MULTIPOIN	JT TRANSMISSION WITH PER CSI-RS
FEEDBACK	
Page 7 of 7	and the second s

Assignor:

(Signature):

Name: Vadim Sergevev

City/State: Nizhny, Novgorod, Russian Federation

Date: June 18, 2012

PATENT REEL: 028626 FRAME: 0714

**RECORDED: 07/24/2012**