#### 503173821 02/10/2015

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3220436

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HUANING NIU	02/09/2015
APOSTOLOS PAPATHANASSIOU	01/19/2015
GENG WU	01/12/2015

#### **RECEIVING PARTY DATA**

Name:	INTEL IP CORPORATION
Street Address:	2200 MISSION COLLEGE BLVD.
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95054

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14578045

#### **CORRESPONDENCE DATA**

Fax Number:

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.

**Phone:** 612-373-6900 **Email:** request@slwip.com

Correspondent Name: SCHWEGMAN, LUNDBERG & WOESSNER/INTEL

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Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	4884.170US1
NAME OF SUBMITTER:	NANCY CUNDALL
SIGNATURE:	/Nancy Cundall/
DATE SIGNED:	02/10/2015

#### **Total Attachments: 7**

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PATENT 503173821 REEL: 034931 FRAME: 0505

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# RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 4884.170US1 Patent and Trademark Office

Schwegman Lundberg & Woessner, P.A.	304236
concerning document should be mailed:  Name: Philip D. Jensen  Address:	7. Total fee (37 CFR 3.41):\$ <u>0.00</u> [[Enclosed  []Authorized to be charged to deposit account 504238
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved: 1
Additional numbers attached? [ ]Yes [X]No	
A. Patent Application No.(s) Serial No. 14/578,045	B. Patent No.(s)
A. Dotont Amplication No. (a)	D. Dotont No. (a)
<ul><li>4. Application number(s) or patent number(s):</li><li>If this document is being filed together with a new application.</li></ul>	ation, the execution date of the application is:
Execution Date: February 9, 2015, January 19, 2015, January 12, 2015	
[X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other	
3. Nature of conveyance:	Additional name(s) & address(es) attached? []Yes [X]Ne
[ ]Yes [X]No	City: <u>Santa Clara</u> State: <u>CA</u> Zip: <u>95054</u> Country: <u>United States of America</u>
Additional name(s) of conveying party(ies) attached?	Street Address: 2200 Mission College Blvd.
Name of conveying party(ies):     Huaning Niu, Apostolos Papathanassiou, Geng Wu	Name: Intel IP Corporation

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

THE MEDICAL TERMS

## **ASSIGNMENT**

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned inventor(s):

<Huaning Niu, Apostolos Papathanassiou, Geng Wu>

hereby sell, assign, and transfer to:

**Intel IP Corporation** 

a corporation of Delaware, having a principal place of business at 2200 Mission College Boulevard, Santa Clara, California, 95054 USA ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all other countries, in and to any and all inventions and improvements that are disclosed in the application for the patent entitled:

REMOTE RADIO UNIT AND BASEBAND UNIT FOR ASYMETRIC RADIO AREA NETWORK CHANNEL PROCESSING

(I hereby authorize and request any attorney having appropriate authority from the assignee to insert on the designated lines below, the filing date and application number of said application when known.)

which was filed on **December 19, 2014** as

United States of America Application Number 14/578,045

which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

and in and to said application and all Additional Applications, and all other patent applications that have been or shall be filed in the United States and all other countries and international filing offices on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all other countries and international filing offices on said inventions and improvements; and in and to all rights of priority resulting from the filing of said applications; as used herein "Additional Applications" includes but is not limited to design, utility, utility model, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and national phase applications on said inventions and improvements;

and agree that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all Additional Applications, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors,

Page 1 of 2

assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

1-4-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	2/9/2015
Huaning Niu	Date Signed
Apostolos Papathanassiou	Date Signed
Geng Wu	Date Signed

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Huaning Niu	Date Signed
42	01/19/2015
Apostolos Papathanassiou	Date Signed
Geng Wu	Date Signed

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Huaning Niu	Date Signed
Apostolos Papathanassiou	Date Signed
	61/12/2015
Geng Wu	Date Signed