

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHIE MING CHOU	08/28/2014
CHING-YAO HUANG	09/03/2014
RECEIVING PARTY DATA	
Name:	TRANSPACIFIC IP MANAGEMENT GROUP LTD.
Street Address:	ROOM 201, 2ND FLOOR, NO. 205 DUNHUA NORTH ROAD
City:	TAIPEI CITY 105
State/Country:	TAIWAN
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	61917263
Application Number:	14451874
CORRESPONDENCE DATA	
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<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>	
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ATTORNEY DOCKET NUMBER:	TPMUP107US, USA
NAME OF SUBMITTER:	THOMAS E. WATSON
SIGNATURE:	/Thomas E. Watson/
DATE SIGNED:	03/18/2015
Total Attachments: 8	
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INVENTOR(S) ASSIGNMENT OF PATENT RIGHTS

- (1) For good and valuable consideration, the receipt of which is hereby acknowledged, I [we], the undersigned inventor[s]:

Given Name:	<u>Chie Ming Chou</u>		
Residence:	<u>Hsinchu, Taiwan</u>	Citizenship:	<u>TW</u>
Mailing Address:	<u>1001 University Road,</u>		
	<u>Hsinchu, Taiwan 300, R.O.C.</u>		

Given Name:	<u>Ching-Yao Huang</u>		
Residence:	<u>Hsinchu, Taiwan</u>	Citizenship:	<u>TW</u>
Mailing Address:	<u>1001 University Road,</u>		
	<u>Hsinchu, Taiwan 300, R.O.C.</u>		

hereby sell, assign, transfer, and convey unto:

TRANSPACIFIC IP MANAGEMENT GROUP LTD.

a Taiwanese company, having an address at Room 201, 2nd Floor, No. 205 Dunhua North Road, Taipei City 105, Taiwan , R.O.C. ("Assignee"), and its successors, assigns and legal representatives, all right, title, and interest that exist today and may exist in the future in and to any and all of the following (collectively, "Patent Rights"):

- (a) The U.S. Patent Application ("Application") entitled listed in the table below has been executed by the undersigned prior hereto or concurrently herewith;

Application Number	Filing Date	Title of Patent
61/917,263	December 17, 2013	Heuristic Proportional Fairness Scheduling Algorithm For Energy-Efficient Transmission in Collaborative Small Cells
14/451,874	August 5, 2014	NETWORK OPERATING SYSTEM RESOURCE COORDINATION

- (b) any and all patents and patent applications (i) to which the Application directly or indirectly claims priority, (ii) for which the Application directly or indirectly forms a basis for priority, and/or (iii) that were co-owned applications that incorporate by reference, or are incorporated by reference into, the Application;
- (c) any and all reissue applications, reexaminations, extensions, continuation applications, continuation-in-part applications, continuing prosecution applications, requests for continued examination, divisional applications, substitute applications, renewal applications, registrations, and any and all other patent applications that have been or shall be filed in the U.S. relating to any item in any of the foregoing categories (a) and (b);
- (d) any and all patents (including, without limitation, reissues, continuations, continuations in part and divisions) issuing from or relating to any of the foregoing categories (a) through (c);
- (e) any and all foreign patents, foreign patent applications, and foreign counterparts relating to any item in any of the foregoing categories (a) through (d), including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances;
- (f) any and all items in any of the foregoing in categories (a) through (e) whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, or the like;
- (g) any and all inventions, invention disclosures, improvements, and discoveries described in any item in any of the foregoing categories (a) through (e) and all other rights arising out of such inventions, invention disclosures, improvements, and discoveries;
- (h) any and all rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial design protections, design

patent protections, or other governmental grants or issuances of any type related to any item in any of the foregoing categories (a) through (e) and (g), including, without limitation, under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement, or understanding;

- (i) any and all causes of action (whether known or unknown or whether currently pending, filed, or otherwise) and other enforcement rights under, or on account of, any item in any of the foregoing categories (a) through (e), (g), and (h), including, without limitation, all causes of action and other enforcement rights for (i) damages, (ii) injunctive relief, and (iii) any other remedies of any kind for past, current, and future infringement; and
 - (j) any and all rights to collect royalties and other payments under or on account of any item in any of the foregoing categories (a) through (e) and (g) through (i).
- (2) I [we] agree to, at the reasonable request of Assignee and without demanding any further consideration therefore, do all things necessary, proper, or advisable, including without limitation, the execution, acknowledgment, and recordation of specific assignments, oaths, declarations, and other documents on a country-by-country basis, to assist Assignee in obtaining, perfecting, sustaining, and/or enforcing the Patent Rights. Such assistance will include providing prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, powers of attorney, specifications, declarations or other papers, and other assistance reasonably necessary for filing patent applications, complying with any duty of disclosure, and conducting prosecution, reexamination, reissue, interference or other priority proceedings, opposition proceedings, cancellation proceedings, public use proceedings, infringement or other court actions and the like with respect to the Patent Rights. With prior written approval by Assignee, Assignee will pay Assignor's reasonable costs and expenses.
- (3) I [we] agree that said Assignee may apply for and receive patent or patents for said Patent Rights in its own name, and hereby authorize the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.
- (4) I [we] covenant that no assignment, grant, mortgage, license, or other agreement affecting the Patent Rights has been made to others or will be made to others, and that full right to convey the Patent Rights as herein expressed is possessed.
- (5) I [we] hereby authorize and request the attorneys of _____ [Name of Law Firm] of _____ [Location] to insert in the spaces provided above the filing date, application number, and attorney docket number of said application when known.

- (6) I [we] agree that the terms and conditions of this Assignment of Patent Rights will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon the undersigned.
-

Inventor[s]:

Inventor's Name:	<u>Chie Ming Chou</u>
Inventor's Signature:	<u><i>Chie Ming Chou</i></u> Date <u>2014.8.28</u>

(Signature MUST be attested)

ATTESTATION OF SIGNATURE PURSUANT TO 28 U.S.C. §1746

The undersigned witnessed the signature of Chie Ming Chou to the above Inventor (s) Assignment of Patent Rights and makes the following statements:

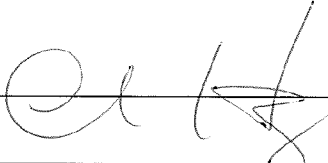
1. I am over the age of 18 and competent to testify as to the facts in this Attestation block if called upon to do so.
2. Chie Ming Chou is personally known to me (or proved to me on the basis of satisfactory evidence) and appeared before me on Aug. 28, 2014 to execute the above Inventor (s) Assignment of Patent Rights.
3. Chie Ming Chou subscribed to the above Inventor (s) Assignment of Patent Rights.

I declare under penalty of perjury under the laws of the United States of America that the statements made in the three (3) numbered paragraphs immediately above are true and correct.

EXECUTED on Aug. 28, 2014 (date)

By: *Meng-tieh Hsieh*

Print Name: Meng-tieh Hsieh

Inventor's Name:	<u>Ching-Yao Huang</u>
Inventor's Signature:	<u></u>
	Date <u>2014.9.3.</u>

(Signature MUST be attested)

ATTESTATION OF SIGNATURE PURSUANT TO 28 U.S.C. §1746

The undersigned witnessed the signature of Ching-Yao Huang to the above Inventor (s) Assignment of Patent Rights and makes the following statements:

1. I am over the age of 18 and competent to testify as to the facts in this Attestation block if called upon to do so.
2. Ching-Yao Huang is personally known to me (or proved to me on the basis of satisfactory evidence) and appeared before me on Sep. 3, 2014 to execute the above Inventor (s) Assignment of Patent Rights.
3. Ching-Yao Huang subscribed to the above Inventor (s) Assignment of Patent Rights.

I declare under penalty of perjury under the laws of the United States of America that the statements made in the three (3) numbered paragraphs immediately above are true and correct.

EXECUTED on Sep. 3, 2014 (date)

By: Meng-tieh Hsieh

Print Name: Meng-tieh Hsieh

