

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PEI LIU	09/02/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HUAWEI TECHNOLOGIES CO., LTD.
<b>Street Address:</b>	HUAWEI ADMINISTRATION BUILDING, BANTIAN
<b>Internal Address:</b>	LONGGANG DISTRICT, GUANGDONG
<b>City:</b>	SHENZHEN
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	518129
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14510773
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(972)732-9218
<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>Phone:</b>	972 732 1001
<b>Email:</b>	docketing@slater-matsil.com
<b>Correspondent Name:</b>	SLATER & MATSIL, L.L.P.
<b>Address Line 1:</b>	17950 PRESTON ROAD, SUITE 1000
<b>Address Line 4:</b>	DALLAS, TEXAS 75252
<b>ATTORNEY DOCKET NUMBER:</b>	HW 83439865US04
<b>NAME OF SUBMITTER:</b>	SHANDY L. SARCHET
<b>SIGNATURE:</b>	/Shandy L. Sarchet/
<b>DATE SIGNED:</b>	10/09/2014
<b>Total Attachments: 2</b>	
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source=ASSN#page2.tif	

**ASSIGNMENT**

**WHEREAS, I,**

Pei LIU  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China

have invented and own a certain invention entitled:  
METHOD AND APPARATUS FOR CHANNEL MAPPING BASED ON FREQUENCY  
HOPPING  
for which invention I have executed an application (provisional or non-provisional) for a U.S.  
patent, which was filed on \_\_\_\_\_, under U.S. Application No. \_\_\_\_\_, and

**WHEREAS, HUAWEI TECHNOLOGIES CO., LTD.,** of Huawei Administration  
Building, Bantian, Longgang District, Shenzhen, 518129, Guangdong, P.R. China, hereinafter  
referred to as Assignee, is desirous of acquiring the entire domestic and foreign right, title, and  
interest in and under the invention described in the patent application.

**NOW, THEREFORE,** for good and valuable considerations, the receipt and sufficiency of  
which are hereby acknowledged, I assign and transfer to the Assignee and the Assignee's legal  
representatives, successors and assigns the full and exclusive rights in and to the invention in  
the U.S. and every foreign country and the entire right, title, and interest in and to the patent  
application and other such applications (e.g., provisional applications, non-provisional  
applications, continuations, continuations-in-part, divisionals, reissues, reexaminations,  
National phase applications, including petty patent applications, and utility model applications)  
that may be filed in the United States and every foreign country on the invention, and the  
patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon,  
and I do hereby authorize and request the Commissioner of Patents to issue U.S. patents to the  
above-mentioned Assignee agreeably with the terms of this assignment document.

**I HEREBY AUTHORIZE** the Assignee to insert in this assignment document the filing  
date and application number of the application if the date and number are unavailable at the  
time this document is executed.

**I DO HEREBY COVENANT** and agree with the Assignee that I will not execute any  
writing or do any act whatsoever conflicting with the terms of this assignment document set  
forth herein, and that I will at any time upon request, without further or additional consideration,  
but at the expense of the Assignee, execute such additional assignments and other writings and  
do such additional acts as the Assignee may deem necessary or desirable to perfect the  
Assignee's enjoyment of this assignment, and render all necessary assistance in making  
application for and obtaining original, continuation, continuation-in-part, divisional, reissued,  
reexamined, and National phase patents of the U.S. or of any and all foreign countries on the  
invention, and in enforcing any rights or chooses in action accruing as a result of such  
applications or patents, and by executing statements and other affidavits, it being understood  
that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns  
and legal representatives of all parties hereto.

In re Appln. of LIU .  
Attorney Docket No. \_\_\_\_\_

**IN WITNESS WHEREOF**, I have hereunder set my hand on the dates shown below.

Date Sept. 2 2014

Pei LIU  
Pei LIU