

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4912343

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the ASSIGNMENT DOCUMENT SIGNATURES FROM INVENTORS WAS MISSING FROM ORIGINAL FILING previously recorded on Reel 045445 Frame 0446. Assignor(s) hereby confirms the ASSIGNMENT DOCUMENT SIGNATURES FROM INVENTORS ARE NOW BEING FILED CORRECTLY.
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JIAN LUO	03/23/2018
ZHAO ZHAO	03/28/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HUAWEI TECHNOLOGIES CO., LTD.
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<b>Internal Address:</b>	BANTIAN, LONGGANG DISTRICT
<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>
<b>Application Number:</b>	15695522
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(867)552-8785
<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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<b>Address Line 4:</b>	SHENZHEN, CHINA 518129
<b>ATTORNEY DOCKET NUMBER:</b>	84426629US04
<b>NAME OF SUBMITTER:</b>	CONNIE DEL CASTILLO
<b>SIGNATURE:</b>	/Connie del Castillo/
<b>DATE SIGNED:</b>	04/12/2018
<b>Total Attachments: 7</b>	

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## Electronic Patent Assignment System

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**PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1

Stylesheet Version v1.2

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT												
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>JIAN LUO</td><td>03/23/2018</td></tr><tr><td>ZHAO ZHAO</td><td>03/28/2018</td></tr></tbody></table>	Name	Execution Date	JIAN LUO	03/23/2018	ZHAO ZHAO	03/28/2018							
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**PATENT****REEL: 045925 FRAME: 0655**

<b>Correspondent Name:</b>	HUAWEI TECHNOLOGIES CO., LTD.
<b>Address Line 1:</b>	BUILDING G1-2, HUAWEI INDUSTRIAL BASE,
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<b>Address Line 4:</b>	SHENZHEN, CHINA 518129
<b>ATTORNEY DOCKET NUMBER:</b>	84426629US04
<b>NAME OF SUBMITTER:</b>	CONNIE DEL CASTILLO
<b>Signature:</b>	/Connie del Castillo/
<b>Date:</b>	04/05/2018
<b>Total Attachments: 2</b> source=84426629US04_ASG#page1.tif source=84426629US04_ASG#page2.tif	
<b>RECEIPT INFORMATION</b>  <b>EPAS ID:</b> PAT4900995 <b>Receipt Date:</b> 04/05/2018	

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PATENT

Attorney Docket No. \_\_\_\_\_  
Client Reference No. 84426629US04

ASSIGNMENT

WHEREAS, WE,

Jian Luo	Zhao Zhao
Huawei Technologies Duesseldorf	Huawei Technologies Duesseldorf
GmbH, Riesstr.25, 80992 Munich	GmbH, Riesstr.25, 80992 Munich
Germany; and	Germany

have invented and own a certain invention entitled:

ADAPTATION OF SUBCARRIER FREQUENCY SPACING BASED ON ENERGY  
EFFICIENCY INDICATOR

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on 2017-09-05, under U.S. Application No. 15695522 and

WHEREAS, HUAWEI TECHNOLOGIES CO.,LTD., 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, we 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 we 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.

WE 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.

WE DO HEREBY COVENANT and agree with the Assignee that we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that we 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

PATENT

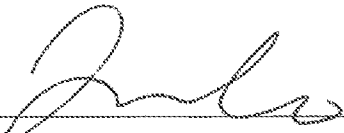
REEL: 045925 FRAME: 0657

In re Appln. of Luo et al.  
Attorney Docket No.

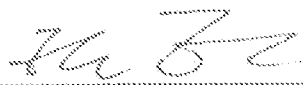
applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, We have hereunder set our hands on the dates shown below

Date Mar 23, 2018

  
\_\_\_\_\_  
Jian Luo

Date Mar. 28, 2018

  
\_\_\_\_\_  
Zhao Zhao