

## 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>
SHUI WING DAVID HUI	07/30/2018
GONG ZHANG	08/01/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HUAWEI TECHNOLOGIES CO., LTD.
<b>Street Address:</b>	HUAWEI ADMINISTRATION BUILDING
<b>Internal Address:</b>	BANTIAN, LONGGANG DISTRICT
<b>City:</b>	SHENZHEN, GUANGDONG
<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:	16054087
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
<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>	858-678-5070
<b>Email:</b>	apsi@fr.com
<b>Correspondent Name:</b>	FISH & RICHARDSON P.C. (HUAWEI TECHNOLOGIES)
<b>Address Line 1:</b>	P.O. BOX 1022
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<b>ATTORNEY DOCKET NUMBER:</b>	43968-0257001
<b>NAME OF SUBMITTER:</b>	JOHN GUSTAV-WRATHALL
<b>SIGNATURE:</b>	/John Gustav-Wrathall/
<b>DATE SIGNED:</b>	04/28/2020
<b>Total Attachments: 4</b>	
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source=43968-0257001_ASN#page4.tif	

**PATENT**

Attorney Docket No. 43968-0257001

Client Reference No. 84586490US04

**ASSIGNMENT**

**WHEREAS, WE,**

Shui Wing David Hui  
Huawei Administration Building  
Bantian, Longgang District  
Shenzhen, 518129, Guangdong  
P.R.CHINA; and

Gong Zhang  
Huawei Administration Building  
Bantian, Longgang District  
Shenzhen, 518129, Guangdong  
P.R.CHINA;

have invented and own a certain invention entitled:  
**METHOD FOR TRAFFIC ENGINEERING IN COMMUNICATIONS NETWORK AND  
CONTROLLER**

for which invention we 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.**, 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  
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.

**PATENT**

**REEL: 052512 FRAME: 0950**

In re Appln. of Hui et al.  
Attorney Docket No. 43968-0257001

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

Date Jul 30, 2018

Shui Wing David Hui  
Shui Wing David Hui

Date \_\_\_\_\_

\_\_\_\_\_  
Gong Zhang

**PATENT**

Attorney Docket No. 43968-0257001

Client Reference No. 84586490US04

**ASSIGNMENT**

**WHEREAS, WE,**

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Bantian, Longgang District  
Shenzhen, 518129, Guangdong  
P.R.CHINA; and

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Bantian, Longgang District  
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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  
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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.

**PATENT**

**REEL: 052512 FRAME: 0952**

In re Appln. of Hui et al.  
Attorney Docket No. 43968-0257001

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

Date \_\_\_\_\_

\_\_\_\_\_  
Shui Wing David Hui

Date Aug 1, 2018

*Gong Zhang*  
\_\_\_\_\_  
Gong Zhang