PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5163393

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JUNWEI GOU	09/10/2018
ZHISHAN ZHUANG	08/21/2018
CHI ZHANG	09/20/2018
ZHONGLIN XIA	08/24/2018

RECEIVING PARTY DATA

Name:	HUAWEI TECHNOLOGIES CO., LTD.
Street Address:	HUAWEI ADMINISTRATION BUILDING, BANTIAN, LONGGANG DISTRICT
City:	SHENZHEN
State/Country:	CHINA
Postal Code:	518129

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16089373

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: 404-815-6500

Email: Isun@kilpatricktownsend.com

Correspondent Name: KILPATRICK TOWNSEND & STOCKTON LLP (HUAW

Address Line 1: 1100 PEACHTREE STREET

Address Line 2: SUITE 2800

Address Line 4: ATLANTA, GEORGIA 30309

ATTORNEY DOCKET NUMBER:	088963-1101416 (029300US)
NAME OF SUBMITTER:	FEI SHEN
SIGNATURE:	/Fei Shen/
DATE SIGNED:	09/28/2018

Total Attachments: 8

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PATENT 505116632 REEL: 047000 FRAME: 0978

PATENT REEL: 047000 FRAME: 0979

ASSIGNMENT

WHEREAS, WE,

Junwei Gou Huawei Administration Building Bantian, Longgang District

Shenzhen, 518129, Guangdong

P.R.CHINA; and

Chi Zhang

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA; and

Zhishan Zhuang

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA; and

Zhonglin Xia

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA;

have invented and own a certain invention entitled:

RESOURCE STATISTICS COLLECTION METHOD AND APPARATUS AND TERMINAL

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on 9/28/2018, under U.S. Application No. 16089373 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 Assignce 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

In re Appln. of Gou et al. Attorney Docket No. <u>088963-1</u>101416 (029300US)

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

Date 70 /8-9. (0	Junwe': (wu Junwei Gou	
'	Junwei Gou	
Date		<u>.</u>
	Zhishan Zhuang	
Date		
	Chi Zhang	
Date		
Date	Zhonglin Xia	

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

Date	
	Junwei Gou
Date Aug. 21, 2018	Zhishan Zhuang.
	Zhishan Zhuang
Date	
	Chi Zhang
Date	
######################################	Zhonglin Xia

PATENT REEL: 047000 FRAME: 0983

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Date	
	Junwei Gou
Date	
	Zhishan Zhuang
Date 2018.9.10	Chi Zhang 3 200
,	Chi Zhang
Date	
	Zhonglin Xia

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

Date	Junwei Gou
Date	Zhishan Zhuang
Date	Chi Zhang
Date Auf 24, 2018	<u> </u>