

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4688078

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		
CONVEYING PARTY DATA			
	Name	Execution Date	
	QIANG TONG	11/01/2017	
	JIAN LI	11/08/2017	
RECEIVING PARTY DATA			
Name:	HUAWEI TECHNOLOGIES CO., LTD.		
Street Address:	HUAWEI ADMINISTRATION BUILDING		
Internal Address:	BANTIAN, LONGGANG DISTRICT		
City:	SHENZHEN		
State/Country:	CHINA		
Postal Code:	518129		
PROPERTY NUMBERS Total: 1			
	Property Type	Number	
	Application Number:	15677952	
CORRESPONDENCE DATA			
Fax Number:	(972)628-3616		
<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>			
Phone:	972 628 3600		
Email:	patents@munckwilson.com		
Correspondent Name:	DOCKET CLERK/HTCL		
Address Line 1:	P.O. DRAWER 800889		
Address Line 4:	DALLAS, TEXAS 75380		
ATTORNEY DOCKET NUMBER:	HUAW08-23757		
NAME OF SUBMITTER:	ROBERT D. MCCUTCHEON		
SIGNATURE:	/ROBERT D. MCCUTCHEON/		
DATE SIGNED:	11/14/2017		
Total Attachments: 4			
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source=Assignment#page4.tif			

PATENT

Attorney Docket No. _____
Client Reference No. 84323757US06

ASSIGNMENT

WHEREAS, WE,

Qiang Tong	Jian Li
Huawei Administration Building	Huawei Administration Building
Bantian, Longgang District	Bantian, Longgang District
Shenzhen, 518129, Guangdong	Shenzhen, 518129, Guangdong
P.R.CHINA; and	P.R.CHINA;

have invented and own a certain invention entitled:

DATA QUERY METHOD AND APPARATUS

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on 2017-08-15, under U.S. Application No. 15677952 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

In re Appln. of Tong et al.
Attorney Docket No. _____

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 Nov 1, 2017

Qiang Tong
Qiang Tong

Date _____

Jian Li

PATENT

Attorney Docket No. _____
Client Reference No. 84323757US06

ASSIGNMENT

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Qiang Tong	Jian Li
Huawei Administration Building	Huawei Administration Building
Bantian, Longgang District	Bantian, Longgang District
Shenzhen, 518129, Guangdong	Shenzhen, 518129, Guangdong
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In re Appln. of Tong et al.
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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 _____

Qiang Tong

Date Nov 8, 2017

Jian Li
Jian Li