

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>QIANG LIU</td> <td>11/29/2013</td> </tr> <tr> <td>CHENGWEI ZHANG</td> <td>11/29/2013</td> </tr> </tbody> </table>		Name	Execution Date	QIANG LIU	11/29/2013	CHENGWEI ZHANG	11/29/2013
Name	Execution Date						
QIANG LIU	11/29/2013						
CHENGWEI ZHANG	11/29/2013						
RECEIVING PARTY DATA							
Name:	Huawei Technologies Co., Ltd.						
Street Address:	Huawei Administration Building						
Internal Address:	Bantian, Longgang District						
City:	Shenzhen, Guangdong						
State/Country:	CHINA						
Postal Code:	518129						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14094156</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14094156		
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Application Number:	14094156						
CORRESPONDENCE DATA							
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Correspondent Name:	JOHN K. WINN						
Address Line 1:	TWO PRUDENTIAL PLAZA, SUITE 4900						
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Address Line 4:	CHICAGO, ILLINOIS 60601-6731						
ATTORNEY DOCKET NUMBER:	HW715656						
NAME OF SUBMITTER:	JOHN K. WINN						
Signature:	/John K. Winn/						

Date:

12/02/2013

Total Attachments: 2

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**PATENT**  
 Attorney Docket No. 715656  
 Client Reference No. 83521290U504

### ASSIGNMENT

WHEREAS, WE,

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

Chengwei ZHANG  
 Huawei Administration Building  
 Bantian, Longgang District  
 Shenzhen, 518129, Guangdong  
 P.R. CHINA;

have invented and own a certain invention entitled:  
**METADATA QUERYING METHOD AND APPARATUS**  
 for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on December 2, 2013, under U.S. Application No. 14/094156 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, 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.

In re Appln. of Liu et al.  
Attorney Docket No. 715656

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

Date November 29, 2013

Qiang LIU  
Qiang LIU

Date November 29, 2013

Xiaobo LIU  
Witness

Date November 29, 2013

Jiang XIANG  
Witness

Date November 29, 2013

Chengwei ZHANG  
Chengwei ZHANG

Date November 29, 2013

Jun YOU  
Witness

Date November 29, 2013

Decai HUANG  
Witness