

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT2826238

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KECHENG YU	03/27/2014
ZHIMING DING	03/17/2014
PING FANG	03/17/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HUAWEI DEVICE CO., LTD.
<b>Street Address:</b>	BUILDING B2, HUAWEI INDUSTRIAL BASE
<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>
<b>Application Number:</b>	14063232
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)434-1501
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<b>ATTORNEY DOCKET NUMBER:</b>	2382.1154
<b>NAME OF SUBMITTER:</b>	GENE M. GARNER II, REG. 34,172
<b>SIGNATURE:</b>	/Gene M. Garner II/
<b>DATE SIGNED:</b>	04/23/2014
<b>Total Attachments: 4</b>	
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**PATENT**

Attorney Docket No. \_\_\_\_\_  
Client Reference No. 83355920US03

**ASSIGNMENT**

**WHEREAS, WE,**

<p>Kecheng YU BuildingB2, Huawei Industrial Base Bantian, Longgang District Shenzhen, 518129, Guangdong P.R. CHINA.;and</p>	<p>Zhiming DING BuildingB2,HuaweiIndustrialBase Bantian, Longgang District Shenzhen, 518129, Guangdong P.R. CHINA.;and</p>
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Ping FANG  
BuildingB2, Huawei Industrial Base  
Bantian, Longgang District  
Shenzhen, 518129, Guangdong  
P.R. CHINA.;

have invented and own a certain invention entitled:  
**METHOD FOR UPDATING GROUP TEMPORAL KEY, RELATED APPARATUS AND SYSTEM**  
for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on 25 Oct 2013, under U.S. Application No. 14063232, and

**WHEREAS, HUAWEI DEVICE CO., LTD.**, of BuildingB2, Huawei Industrial Base, 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

In re Appln. of Yuet al.  
Attorney Docket No. \_\_\_\_\_

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.

Date Mar. 27. 2014

Kecheng Yu .  
Kecheng YU

Date \_\_\_\_\_

\_\_\_\_\_  
Zhiming DING

Date \_\_\_\_\_

\_\_\_\_\_  
Ping FANG

**PATENT**

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Date \_\_\_\_\_

\_\_\_\_\_  
Kecheng YU

Date Mar. 17, 2014

Zhiming DING  
Zhiming DING

Date Mar. 17, 2014

Ping FANG  
Ping FANG