

## 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>
	XIAOLING LIU	05/31/2013
	ZHIQIN HE	04/27/2015
	LIU FANG	04/22/2015
<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	
<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:	15668463
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(972)731-2289	
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<b>Address Line 1:</b>	5601 GRANITE PARKWAY, SUITE 500	
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<b>ATTORNEY DOCKET NUMBER:</b>	4437-24901 (83620043US05)	
<b>NAME OF SUBMITTER:</b>	NICHOLAS K. BEAULIEU	
<b>SIGNATURE:</b>	/Nicholas K. Beaulieu/	
<b>DATE SIGNED:</b>	08/04/2017	
<b>Total Attachments: 4</b>		
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**ASSIGNMENT**

**WHEREAS, WE,**

Xiaoling LIU	Zhiqin HE
BuildingB2, Huawei Industrial Base	BuildingB2, Huawei Industrial
Bantian, Longgang District	Base Bantian, Longgang District
Shenzhen, 518129, Guangdong	Shenzhen, 518129, Guangdong
P.R. CHINA. ;and	P.R. CHINA. ;and

Liu FANG  
BuildingB2, Huawei Industrial Base  
Bantian, Longgang District  
Shenzhen, 518129, Guangdong  
P.R. CHINA.

have invented and own a certain invention entitled:  
**METHOD FOR PROCESSING KEY VALUE INFORMATION OF REMOTE CONTROL,  
CONTROL DEVICE, AND REMOTE CONTROL**  
for which invention we have executed an application (provisional or non-provisional) for a U.S.  
patent, which was filed on May 20, 2015, under U.S. Application No. 14/717,294, 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  
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,

In re Appln. of LIU et al.  
 Attorney Docket No. 4437-24900

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 May 31, 2013 Xiaoling LIU  
 Xiaoling LIU

Date May 31, 2013 Jiepeng CHEN  
 Witness

Date May 31, 2013 Shenghua LIAD  
 Witness

Date \_\_\_\_\_  
 Zhiqin HE

Date \_\_\_\_\_  
 Witness

Date \_\_\_\_\_  
 Witness

Date \_\_\_\_\_  
 Liu FANG

Date \_\_\_\_\_  
 Witness

Date \_\_\_\_\_  
 Witness

In re Appln. of LIU et al.  
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IN WITNESS WHEREOF, We have hereunder set our hands on the dates shown below.

Date \_\_\_\_\_

\_\_\_\_\_  
Xiaoling LIU

Date

Apr 27, 2015

\_\_\_\_\_  
*Zhiqin HE*  
Zhiqin HE

Date \_\_\_\_\_

\_\_\_\_\_  
Liu FANG

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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 \_\_\_\_\_

\_\_\_\_\_  
Xiaoling LIU

Date \_\_\_\_\_

\_\_\_\_\_  
Zhiqin HE

Date Apr 22, 2015

Liu FANG  
\_\_\_\_\_  
Liu FANG