2012		6/2012	
Q 0201		47738	U.S. DEPARTMENT OF COMMERCE
, 1.	Name of conveying parties:	o record the attached	a doddfforth.
	1.) Dongmei ZHANG 2.) Aiquin ZHANG 3.) Xiaoyu BI 4.) Jing LIU		
2.	Name and Address of receiving party:		
	HUAWEI TECHNOLOGIES CO., LTD. Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R., China		
3.	Nature of conveyance:  X	Merger Change of N July 26, 2012	ame
4.	Application number(s) or patent number(s):  This document is being filed together with OR  This document is being filed after filing of (a) Patent Application No(s). 13/564,173 (b) Patent No(s).	the application:	
5.	Name and address of party to whom correspondence of STAAS & HALSEY LLP Attention: Paul I. Kravetz 1201 New York Ave., N.W., 7th Floor Washington, D.C. 20005	ondence concern Our Docket:	
6.	Total number of applications and patents invo	olved:1	
7.	Total fee (37 CFR 3.41) (\$ 40.00 ⊠ Enclosed □ Authorized to be charged to credit ca □ Authorized to be charged to deposit a	rd.	pplication in Assignment)
8.	Deposit Account No.: 19-3935 (Any underp Account) (Attach duplicate copy of this page if paying b	•	
	I. Kravetz, Reg. No. 35,230	Signature	01 FC:3021 August 1, 2012 Date
ivame	e of Person Signing		er of pages including cover sheet: 5

Revised April, 2011

Attorney Docket No. Client Reference No. 82743419US05

## **ASSIGNMENT**

## WHEREAS, WE,

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

Xiaoyu BI Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R. CHINA; and Aiqin ZHANG Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R. CHINA; and

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

have invented and own a certain inv	vention entitled:	
RELAY NODE AUTHENTICATION	ON METHOD, APPARATUS, AND SYSTEM	
for which invention we have execu	ted an application (provisional or non-provisional) for a	U.S
patent, which was filed on	, under U.S. Application Noand	

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

PATENT REEL: 028755 FRAME: 0424

Attorney Docket No	
applications or patents, and by executing	ights or chooses in action accruing as a result of such g statements and other affidavits, it being understood ent shall bind, and inure to the benefit of, the assigns ereto.
IN WITNESS WHEREOF, we have	hereunder set our hands on the dates shown below.
Date July 07, 2012	Dongmei ZHANG Dongmei ZHANG
Date July 27, 2012	Vixian Xn. Witness / C
Date July 27, 2072	Witness Witness
ann a	ne units artis artis artis artis della della della della della artis art
Date	Aiqin ZHANG
Date	Witness
Date	Witness
Date July 27, 0012	Haoyu Bi Xiaoyu Bi
Date July 27. 2012	Jiang Wei Ying Witness
Date July 27, 2012	Witness Wu
Date	Jing LIU
Date	Witness
Date	Witness

Attorney Docket No. Client Reference No. 82743419US05

## ASSIGNMENT

## WHEREAS, WE,

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

Xiaoyu BI Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R. CHINA; and Aiqin ZHANG Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R. CHINA; and

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

have invented and own a certain inventi	ion entitled:	
RELAY NODE AUTHENTICATION	METHOD, APPARATUS, AND S	SYSTEM
for which invention we have executed a	an application (provisional or non-	provisional) for a U.S
patent, which was filed on	, under U.S. Application No.	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

In re	Appln.	Of	Zhan	g et al.
Atto	mey Do	cke	t No.	

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	
	Dongmei ZHANG
Date	
	Witness
Date	•
	Witness
,	
***	
Date 144, 26, 2012	Aigin ZHANG
Date July, 26, 2012	Aiqin ZHANG
Date July, 26, 2012	Haj LIU Witness
0	Witness
Date Tuly, 26, 2012	Yauping ZHANG Witness
-	Witness
Date	Y' D1
	Xiaoyu BI
Date	
•	Witness
Date	
	Witness
manus de la companya	
Date Tuly 26 2012	T'. 0 1'.
Date July. 26. 2012	Jing Liu Jing J. IU
- Tulu 26.2012	Thomas bred 1:
Date July . 26. 2012	Zhong fong Li Witness
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Date July . 26. W12	Ke Wong
V	WITHESS V