#### 501909763 05/03/2012

# PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Dongmei Zhang	04/27/2012
Xiaoyu Bi	05/02/2012
Aiqin Zhang	04/27/2012

#### **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**

Property Type	Number		
Application Number:	13463444		

## **CORRESPONDENCE DATA**

Fax Number: (312)321-4299 Phone: 3123214200

Email: usassignments@brinkshofer.com, cbrady@brinkshofer.com Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Gustavo Siller, Jr.

Address Line 1: Brinks, Hofer, Gilson & Lione

P.O. BOX 10395 Address Line 2:

Address Line 4: Chicago, ILLINOIS 60610

ATTORNEY DOCKET NUMBER: 13674-798 NAME OF SUBMITTER: Gustavo Siller, Jr.

**PATENT** 

REEL: 028152 FRAME: 0567

# Total Attachments: 7

source=13674-798Assignment#page1.tif source=13674-798Assignment#page2.tif source=13674-798Assignment#page3.tif source=13674-798Assignment#page4.tif source=13674-798Assignment#page5.tif source=13674-798Assignment#page6.tif source=13674-798Assignment#page7.tif

Client/Matter No. 13674-798 Client Ref. No. 81362525US04

	RECORDATION FORM COVER SHEET PATENTS ONLY					
	To the Director of the U.S. Patent and Trademark Office: Plea	<del></del>	ocuments or the new address(es) below:			
1.	Name of conveying Party(ies):	2.	Name and Ad	dress of receiving Party(ies):		
	DONGMEI ZHANG/APRIL 27, 2012 XIAOYU BI/MAY 2, 2012 AIQIN ZHANG/APRIL 27, 2012		Name:	HUAWEI TECHNOLOGIES CO., LTD.		
			Address:	Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong		
	dditional name(s) of conveying party(ies) attached?	<del>'</del> -		P.R. China		
3.	,,					
	Execution Date(s): <u>April 27, 2012, May 2, 2012</u>					
	Assignment		Additional name(	(s) and addresses attached? ☐ Yes ⊠ No		
4.	4. Application or Patent Number(s).					
A.	Patent Application No.(s):	В.	Patent No.(s):			
	Additional numbers a	 :ached	P ☐ Yes ☒ No			
5.				pplications & patents involved: 1		
		7.	Total Fee (37	CFR 1.21(h) & 3.41) \$ 40.00		
	BRINKS HOFER GILSON & LIONE PO BOX 10395 CHICAGO, IL 60610		Authorize Enclosed	charge by credit card charge to Deposit Account No. 23-1925 uired (government interest not affecting title)		
	Phone: (312) 321-4200	8.	Payment Info	rmation:		
	Fax: (312) 321-4299	а.	☐ Credit Card	: Last 4 Numbers Expiration Date		
		b.	Account Nu	and/or any Deficiencies to Deposit mber 23-1925 User Name: Brinks Hofer Gilson & Lione		
9.	Signature: /Gustavo Siller, Jr./			May 3, 2012		
	Signature			Date		
	Gustavo Siller, Jr. Name of Person Signing			of pages including coversheet, nts and documents: <b>7</b>		

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, PO Box 1450, Alexandria, VA 22313-1450

Attorney Docket No. Client Reference No. 81362525US04

## ASSIGNMENT

WHEREAS, WE,

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

nave invented and own a certain invention entitled:  METHOD AND DEVICE FOR OBTAINING SECURITY KEY I  RELAY SYSTEM	IN
---	----

for which invention we have executed 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

In re Appin. of Zhang et al. Attorney Docket No.	
reissued, reexamined, and National phas on the invention, and in enforcing any r applications or patents, and by executin	riginal, continuation, continuation-in-part, divisional, e patents of the U.S. or of any and all foreign countries ights or chooses in action accruing as a result of such g statements and other affidavits, it being unders codent 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 April, 27, 2012	Dongmei ZHANG Dongmei ZHANG
Date April , 27 , 2012	Yang Cui Witness
·	1
Date April , 27 , 2012	Jiang wei Ying
	Witness
Date	Xiaoyu BI
Date	
	Witness
Date	
	Witness
<del></del>	THE REPORT OF THE PARTY OF THE
Date	Aigin ZHANG
Date	
The second secon	Witness
Date	
	Witness

Attorney Docket No. Client Reference No. 81362525U\$04

### ASSIGNMENT

# WHEREAS, WE,

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

have invented and own a certain invention entitled:

METHOD AND DEVICE FOR OBTAINING SECURITY KEY IN

RELAY SYSTEM

for which invention we have executed 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

In re Aj Attorne	opin. of Zhao y Docket No	ng e D	t al.	·		
making	application	for	and	obtaining	original,	continuatio

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

Date		Dongmei ZHANG
Date	hamiltonia de la companya della companya della companya de la companya della comp	Witness
Date		Witness
Date 0	1/5, 2012	Xiaoyu BI Xiaoyu Bi
	2/5, 2012	Liven LONG
	2/5. 2012	Witness  Changlui Wu Witness
	· hell	
Date		Aiqin ZHANG
Date		Witness
Date		Witness

Attorney Docket No. Client Reference No. 81362525US04

## 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;

have invented and own a certain invention entitled:

METHOD AND DEVICE FOR OBTAINING SECURITY KEY IN

RELAY SYSTEM

for which invention we have executed 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

In re Appln. of Zhang	n+	
Attorney Docket No.	CL	aı.
TOCKEL INO.		

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

Date	
Date	Dongmei ZHANG
Date	Witness
	Witness
Date	
Date	Xiaoyu BI
Date	Witness
	Witness
Date April 27, 2012	Aigin ZHANGI
Date April 27, 2012	Aigin ZHANG Aigin ZHANG Hai LIU
Date 191427, 2012	Witness  Washo Wo Witness
	TT ALLEGS