

PATENT ASSIGNMENT

Electronic Version v1.1

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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>Ying Chen</td> <td>11/15/2012</td> </tr> <tr> <td>Qianglin Zhao</td> <td>11/19/2012</td> </tr> </tbody> </table>		Name	Execution Date	Ying Chen	11/15/2012	Qianglin Zhao	11/19/2012
Name	Execution Date						
Ying Chen	11/15/2012						
Qianglin Zhao	11/19/2012						
RECEIVING PARTY DATA							
Name:	Huawei Technologies Co., Ltd.						
Street Address:	Huawei Administration Building						
Internal Address:	Bantain, 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>13623220</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13623220		
Property Type	Number						
Application Number:	13623220						
CORRESPONDENCE DATA							
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
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ATTORNEY DOCKET NUMBER:	13674-952						
NAME OF SUBMITTER:	Gustavo Siller, Jr.						
Total Attachments: 3 source=13674-952Assignment#page1.tif source=13674-952Assignment#page2.tif source=13674-952Assignment#page3.tif							

CH \$40.00 13623220

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below:

1. Name of conveying Party(ies):

YING CHEN/NOVEMBER 15, 2012
QIANGLIN ZHAO/NOVEMBER 19, 2012

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and Address of receiving Party(ies):

Name: HUAWEI TECHNOLOGIES CO., LTD.

Address: Huawei Administration Building
Bantian, Longgang District
Shenzhen, 518129, Guangdong

Additional name(s) and addresses attached? Yes No

3. Nature of Conveyance/Execution Date(s):

Execution Date(s): November 15, 2012 and November 19, 2012

- Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other: _____

4. Application or Patent Number(s).

This document is being filed together with a new application.

A. Patent Application No.(s):
13/623,220

B. Patent No.(s):

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

BRINKS HOFER GILSON & LIONE
PO BOX 10395
CHICAGO, IL 60610
Phone: (312) 321-4200
Fax: (312) 321-4299

6. Total no. of applications & patents involved: 1

7. Total Fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorize charge by credit card
 Authorize charge to Deposit Account No. 23-1925
 Enclosed
 None required (government interest not affecting title)

8. Payment Information:

- a. Credit Card: Last 4 Numbers
Expiration Date
b. Charge fee and/or any Deficiencies to Deposit
Account Number 23-1925
Authorized User Name: Brinks Hofer Gilson & Lione

9. Signature:

/Gustavo Siller, Jr./

Signature

Gustavo Siller, Jr.

Name of Person Signing

December 6, 2012

Date

Total no. of pages including coversheet,
attachments and documents: 3

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

PATENT

Attorney Docket No. _____
Client Reference No. 83156994US04

ASSIGNMENT

WHEREAS, WE,

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

Qianglin ZHAO
Huawei Administration Building
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA;

have invented and own a certain invention entitled:
**METHOD, APPARATUS, AND SYSTEM FOR FORWARDING PACKET IN
MULTI-TOPOLOGY NETWORK**
for which invention we have executed an application (provisional or non-provisional) for a U.S.
patent, which was filed on 20 Sep 2012, under U.S. Application No. 13623220 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

In re Appln. Of Chen et al.
Attorney Docket No. _____

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 <u>Nov 15, 2012</u>	<u>Ying CHEN</u> Ying CHEN
Date <u>Nov 15, 2012</u>	<u>Katherine Zhao</u> Witness Katherine Zhao
Date <u>Nov 15, 2012</u>	<u>[Signature]</u> Witness Lin Han
<hr/>	
Date <u>Nov 19, 2012</u>	<u>Q. Zhao</u> Qianglin ZHAO
Date <u>Nov 19, 2012</u>	<u>Katherine Zhao</u> Witness Katherine Zhao
Date <u>Nov. 19, 2012</u>	<u>[Signature]</u> Witness Lin Han