

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>Jianmin Song</td> <td>12/06/2011</td> </tr> <tr> <td>Peng Ma</td> <td>12/06/2011</td> </tr> <tr> <td>Dapeng Chen</td> <td>12/12/2011</td> </tr> </tbody> </table>		Name	Execution Date	Jianmin Song	12/06/2011	Peng Ma	12/06/2011	Dapeng Chen	12/12/2011				
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>HUAWEI TECHNOLOGIES CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>Huawei Administration Building</td> </tr> <tr> <td>Internal Address:</td> <td>Bantian, Longgang District</td> </tr> <tr> <td>City:</td> <td>Shenzhen, Guangdong</td> </tr> <tr> <td>State/Country:</td> <td>CHINA</td> </tr> <tr> <td>Postal Code:</td> <td>518129</td> </tr> </table>		Name:	HUAWEI TECHNOLOGIES CO., LTD.	Street Address:	Huawei Administration Building	Internal Address:	Bantian, Longgang District	City:	Shenzhen, Guangdong	State/Country:	CHINA	Postal Code:	518129
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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>13330367</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13330367								
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CORRESPONDENCE DATA													
<p>Fax Number: (312)321-4299</p> <p>Phone: 3123214200</p> <p>Email: usassignments@brinkshofer.com, cbrady@brinkshofer.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Gustavo Siller, Jr.</p> <p>Address Line 1: Brinks, Hofer, Gilson & Lione</p> <p>Address Line 2: P.O. BOX 10395</p> <p>Address Line 4: Chicago, ILLINOIS 60610</p>													
ATTORNEY DOCKET NUMBER:	13674-659												
NAME OF SUBMITTER:	Gustavo Siller, Jr.												

CH \$40.00 13330367

Total Attachments: 5

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**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):

JIANMIN SONG/DECEMBER 6, 2011
PENG MA/DECEMBER 6, 2011
DAPENG CHEN/DECEMBER 12, 2011

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
P. R. China

Additional name(s) and addresses attached? ☐ Yes ☒ No

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

Execution Date(s): December 6, 2011 and December 12, 2011

- ☒ 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):

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 19, 2011

Date

Total no. of pages including coversheet,
attachments and documents: 5

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. 81357560US04

ASSIGNMENT

WHEREAS, WE,

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

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

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

have invented and own a certain invention entitled:
**METHOD, SYSTEM AND NETWORK DEVICE FOR NODE CONFIGURATION AND
PATH DETECTION**
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
making application for and obtaining original, continuation, continuation-in-part, divisional,

In re Appln. of Song et al.
 Attorney Docket No. _____

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 <u>December 6. 2011</u>	<u>Jianmin SONG</u> Jianmin SONG
Date <u>December 6. 2011</u>	<u>Yanbing ZHANG</u> Witness
Date <u>December 6. 2011</u>	<u>WeiJun He</u> Witness

Date <u>December 6. 2011</u>	<u>Peng MA</u> Peng MA
Date <u>December 6. 2011</u>	<u>Shalin Hu</u> Witness
Date <u>December 6. 2011</u>	<u>Chunfang Jia</u> Witness

Date _____	_____ Dapeng CHEN
Date _____	_____ Witness
Date _____	_____ Witness

PATENT

Attorney Docket No. _____
Client Reference No. 81357560US04

ASSIGNMENT

WHEREAS, WE,

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

Peng MA
Huawei Administration Building
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Shenzhen, 518129, Guangdong
P.R. CHINA; and

Dapeng CHEN
Huawei Administration Building
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have invented and own a certain invention entitled:
**METHOD, SYSTEM AND NETWORK DEVICE FOR NODE CONFIGURATION AND
PATH DETECTION**
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
making application for and obtaining original, continuation, continuation-in-part, divisional,

In re Appln. of Song et al.
Attorney Docket No. _____

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 _____ Jianmin SONG

Date _____ Witness

Date _____ Witness

Date _____ Peng MA

Date _____ Witness

Date _____ Witness

Date December, 12, 2011 Dapeng CHEN
Dapeng CHEN

Date December, 12, 2011 Haiyang Wu
Witness

Date December, 12, 2011 Jun CAI
Witness