501802600 01/30/2012

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Ningjuan CHANG	01/11/2012
Ke WANG	01/09/2012
Yan PENG	01/09/2012

RECEIVING PARTY DATA

Name:	HUAWEI TECHNOLOGIES CO., LTD.	
Street Address:	Huawei Administration Building, Bantian, Longgang District	
City:	Shenzhen, Guangdong, P.R.	
State/Country:	CHINA	
Postal Code:	518129	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	13361203	

CORRESPONDENCE DATA

Fax Number: (202)408-4400 Phone: 202-408-4000

Email: will.chen@finnegan.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

Correspondent Name: Huawei Technologies Co., Ltd./Finnegan

Address Line 1: 901 New York Avenue

Address Line 2: NW

Address Line 4: Washington, DISTRICT OF COLUMBIA 20001

ATTORNEY DOCKET NUMBER: 11005.0636

NAME OF SUBMITTER: R. CREMEANS

Total Attachments: 4

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> PATENT REEL: 027618 FRAME: 0211

OP \$40.00 13361203

Attorney Docket No. Client Reference No. 81362631US04

ASSIGNMENT

WHEREAS, WE,

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

Yan PENG Huawei Administration Building: Bantian, Longgang District Shenzhert, 518129, Guangdong P.R. CHINA: Ke WANG
Huawei Administration Building
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA: and

have invented and own a certain invention entitled:

METHOD, APPARATUS, AND SYSTEM FOR DETERMINING AND MAINTAINING QUALITY OF SERVICE PARAMETERS ON A MULTI-HOP NETWORK 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 documents.

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 HERESY COVENANT and agree with the Assignment 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 Chang et al. Attorney Docket 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 Wytness Whereop, we have	hereunder set our hands on the dates at	iown below:		
Date January 11, 2012	Ningjum CHANG			
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Witness

Attorney Docket No. 2007 Client Reference No. 81362631US04

ASSIGNMENT

WHEREAS, WE,

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

Yan PENG Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R. CHINA; Ke WANG Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R. CHINA; and

have invented and own a certain invention entitled:

METHOD, APPARATUS, AND SYSTEM FOR DETERMINING AND MAINTAINING QUALITY OF SERVICE PARAMETERS ON A MULTI-HOP NETWORK for which invention we have executed an application (previsional 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, Bentian, Longgang District, Shenzhen, 518129, Guangdong, P.R. China, hereinafter
referred to as Assignes, 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 inventions 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 documents.

WE HEREBY AUTHORIZE the Assigned to insert in this assignment documentation filling date and application number of the application if the date and number are unavailable at the time this document is executed.

WE DO HEREST 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 Appin, of Chang et al. Attorney Docket 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 manigns and legal representatives of all parties hereto.

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

Date	
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