

PATENT ASSIGNMENT

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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>Wumao Chen</td><td>07/13/2007</td></tr><tr><td>Yong Luo</td><td>07/13/2007</td></tr><tr><td>Dingbo Cao</td><td>07/13/2007</td></tr><tr><td>Bo Ke</td><td>07/13/2007</td></tr><tr><td>Meng Wu</td><td>07/13/2007</td></tr></tbody></table>	Name	Execution Date	Wumao Chen	07/13/2007	Yong Luo	07/13/2007	Dingbo Cao	07/13/2007	Bo Ke	07/13/2007	Meng Wu	07/13/2007	
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RECEIVING PARTY DATA													
Name:	Huawei Technologies Co., Ltd.												
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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>11771044</td></tr></tbody></table>	Property Type	Number	Application Number:	11771044									
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CORRESPONDENCE DATA													
Fax Number:	(312)616-5700												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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ATTORNEY DOCKET NUMBER:	701701												

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PATENT
REEL: 019661 FRAME: 0228

NAME OF SUBMITTER:

John B. Conklin

Total Attachments: 3

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PATENT
Attorney Docket No. 701701
Clien Reference No. OP0670206P/US

Leydig, Voit & Mayer, Ltd.
Two Prudential Plaza, Suite 4900
180 North Stetson Avenue
Chicago, Illinois 60601-6731

ASSIGNMENT

WHEREAS, WE,

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

Yong LUO
Huawei Administration Building
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA;

Dingbo CAO
Huawei Administration Building
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA;

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

Meng WU
Huawei Administration Building
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA;

have invented and own a certain invention entitled:

METHOD AND SYSTEM FOR IMPLEMENTING MULTICAST USING
SLAVE BLOCK IN DIGITAL SUBSCRIBER LINE ACCESS TECHNIQUE

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on June 29, 2007, under U.S. Application No. 11/771,044, 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

In re Appln. of Chen et al.
Attorney Docket No. 701701

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 choses 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 12/7/2007

Wumao Chen

Wumao CHEN

Date 12/7/2007

Linbo Mei

Witness

Date 12/7/2007

Jiahong Wei

Witness

Date 12.7.2007

Yong Luo

Yong LUO

Date 12.7.2007

Yanyan Xianjie

Witness

Date 12-7-2007

Hobo

Witness

In re Appln. of Chen et al.
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Date 13/07/2007

Qingbo Cao
Diogbi GAO

Date 13/07/2007

zhijian Qu
Witness

Date 13/07/2007

Zi Zhen Xu
Witness

Date 13/07/2007

Bo Kie
Bo Kie

Date 13/07/2007

sanzhong Li
Witness

Date 13/07/2007

Xiang Gao
Witness

Date 13/7/2007

Meng Wu
Meng Wu

Date 13/7/2007

Yue Chen
Witness

Date 13/7/2007

Jing Xu
Witness