

**PATENT ASSIGNMENT**

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Qingquan Shi	09/02/2008
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Huawei Technologies Co., Ltd.
<b>Street Address:</b>	Huawei Administration Building
<b>Internal Address:</b>	Bantian, Longgang District
<b>City:</b>	Shenzhen, Guangdong
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	518129
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	12207079
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<b>ATTORNEY DOCKET NUMBER:</b>	13674-23
<b>NAME OF SUBMITTER:</b>	Gustavo Siller, Jr.
<b>Total Attachments: 3</b> source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif	

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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:

<b>1. Name of conveying Party(ies)/Execution Date:</b>  <p style="text-align: center;">QINGQUAN SHI/SEPTEMBER 2, 2008</p> Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>2. Name and Address of receiving Party(ies):</b>  Name: HUAWEI TECHNOLOGIES CO., LTD.  Street Address: Huawei Administration Building Bantian, Longgang District  City: Shenzhen, Guangdong  Country: P.R. China Zip: 518129  Additional name(s) and addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>3. Nature of Conveyance:</b> Execution Date(s): September 2, 2008  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Change of Name <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Security Agreement <input type="checkbox"/> Merger <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Other _____	
<b>4. Application or patent number(s).</b> <input checked="" type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s)                      B. Patent No.(s)   <p style="text-align: center;">Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b> BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4200 (312) 321-4299 Fax	<b>6. Total number of applications and patents involved:</b> <u>1</u>  <b>7. Total Fee</b> (37 CFR 1.21(h) & 3.41)                      \$ <u>40</u>  <input type="checkbox"/> Authorized to be charged by credit card <input checked="" type="checkbox"/> Authorized to be charged to Deposit Acct. No. 23-1925 <input type="checkbox"/> None required (government interest not affecting title)  <b>8. Payment Information:</b>  a. <input type="checkbox"/> Credit Card: Last 4 Numbers Expiration Date  b. <input checked="" type="checkbox"/> Charge fee and/or any Deficiencies to Deposit Account Number 23-1925 Authorized User Name: Brinks Hofer Gilson & Lione
/Gustavo Siller, Jr./	September 9, 2008
Signature	Date
Gustavo Siller, Jr.	Total no. of pages including coversheet, attachments and documents: 3
Name of Person Signing	

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. 0611130US

Brinks Hofer Gilson & Lione  
NBC Tower, Suite 3600  
455 North Cityfront Plaza Drive  
Chicago, IL 60611-5599

**ASSIGNMENT**

**WHEREAS, I,**

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

have invented and own a certain invention entitled:

**Method and Apparatus for Saving Power on a Digital Subscriber Line**

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on \_\_\_\_\_, 2008, 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

In re Appln. of Shi et al.  
Attorney Docket No. \_\_\_\_\_

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 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 2008-9-2

Qingquan SHI  
Qingquan SHI

Date 2008-9-2

Xu Zhao  
Witness

Date 2008-9-2

Wen Yucheng  
Witness

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