

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT2629919

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>QINGYIN FANG</td> <td>10/30/2013</td> </tr> <tr> <td>CHAOPING QIU</td> <td>11/01/2013</td> </tr> <tr> <td>QIANGZHI XIA</td> <td>11/26/2013</td> </tr> </tbody> </table>		Name	Execution Date	QINGYIN FANG	10/30/2013	CHAOPING QIU	11/01/2013	QIANGZHI XIA	11/26/2013
Name	Execution Date								
QINGYIN FANG	10/30/2013								
CHAOPING QIU	11/01/2013								
QIANGZHI XIA	11/26/2013								
RECEIVING PARTY DATA									
Name:	HUAWEI TECHNOLOGIES CO., LTD.								
Street Address:	HUAWEI ADMINISTRATION BUILDING, BANTIAN, LONGGANG DISTRICT								
City:	SHENZHEN, 518129, GUANGDONG, P.R.								
State/Country:	CHINA								
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>14090731</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14090731				
Property Type	Number								
Application Number:	14090731								
CORRESPONDENCE DATA									
Fax Number:	(972)628-3616								
Phone:	972 628 3600								
Email:	patents@munckwilson.com								
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>									
Correspondent Name:	DOCKET CLERK/HTCL								
Address Line 1:	P.O. DRAWER 800889								
Address Line 4:	DALLAS, TEXAS 75380								
NAME OF SUBMITTER:	ROBERT D. MCCUTCHEON								
Signature:	/robert d. mccutcheon/								
Date:	11/26/2013								

Total Attachments: 6
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 REEL: 031680 FRAME: 0539

CH \$40.00 14090731

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PATENT

Attorney Docket No. _____
Client Reference No. 83267599US03

ASSIGNMENT

WHEREAS, WE,

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

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

Qiangzhi XIA
Huawei Administration Building
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA;

have invented and own a certain invention entitled:
**HARD DRIVE ENERGY-SAVING CONTROL METHOD AND APPARATUS, AND
CENTRAL PROCESSING UNIT**
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

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

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 October 30, 2013

Qingyin FANG
Qingyin FANG

Date October 30, 2013

Li ZHANG
Witness

Date October 30, 2013

Weifeng DUAN
Witness

Date _____

Chaoping QIU

Date _____

Witness

Date _____

Witness

Date _____

Qiangzhi XIA

Date _____

Witness

Date _____

Witness

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Date _____
Qingyin FANG

Date _____
Witness

Date _____
Witness

Date NOV 1, 2013
Chaoping Qiu
Chaoping QIU

Date NOV 1, 2013
Tongfei Ma
Witness

Date NOV 1, 2013
Rong Wang
Witness

Date _____
Qiangzhi XIA

Date _____
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Qingyin FANG

Date _____
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Date _____
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Date _____
Chaoping QIU

Date _____
Witness

Date _____
Witness

=====
Date 2013.11.26
Qiangzhi XIA
Qiangzhi XIA

Date 2013.11.26
Qian BAI
Witness

Date 2013.11.26
Xiaohu HE
Witness