

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| 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>Hongfei Qiang</td> <td>03/15/2013</td> </tr> <tr> <td>Zhen Lei</td> <td>03/15/2013</td> </tr> <tr> <td>Fangbing Yao</td> <td>03/15/2013</td> </tr> </tbody> </table> | | Name | Execution Date | Hongfei Qiang | 03/15/2013 | Zhen Lei | 03/15/2013 | Fangbing Yao | 03/15/2013 |
| Name | Execution Date | | | | | | | | |
| Hongfei Qiang | 03/15/2013 | | | | | | | | |
| Zhen Lei | 03/15/2013 | | | | | | | | |
| Fangbing Yao | 03/15/2013 | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | |
| Name: | HUAWEI TECHNOLOGIES CO., LTD. | | | | | | | | |
| Street Address: | Huawei Administration Building | | | | | | | | |
| Internal Address: | Bantian, Longgang District | | | | | | | | |
| City: | Shenzhen | | | | | | | | |
| 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>13847344</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13847344 | | | | |
| Property Type | Number | | | | | | | | |
| Application Number: | 13847344 | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | |
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| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | | | |
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| ATTORNEY DOCKET NUMBER: | 4202-37000 (82831232US04) | | | | | | | | |
| NAME OF SUBMITTER: | Nicholas K. Beaulieu | | | | | | | | |
| Signature: | /Nicholas K. Beaulieu/ | | | | | | | | |

Date:

04/04/2013

Total Attachments: 2

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ASSIGNMENT

WHEREAS, WE,

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

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

Fangbing YAO
Huawei Administration Building
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA;

have invented and own a certain invention entitled:
MULTI-CORE ONLINE PATCHING METHOD AND APPARATUS
for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on March 19, 2013 under U.S. Application No. 13847344 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 Qiang et al.
Attorney Docket No. 4202-37000

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 Mar 15, 2013

Hongfei QIANG

Hongfei QIANG

Date Mar 15, 2013

Dixie Wu

Witness

Date Mar 15, 2013

Liu Yang

Witness

Date Mar 15, 2013

Zhen LEI

Zhen LEI

Date Mar 15, 2013

Wenwei ZHANG

Witness

Date Mar 15, 2013

Wenya Zhou

Witness

Date Mar 15, 2013

Fangbing yao

Fangbing YAO

Date Mar 15, 2013

Shangshang Chen

Witness

Date Mar 15, 2013

Shaolong Jiang

Witness