

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5845440

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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>            |
| XIAOBO CHEN   | 03/09/2012                       |
| RUINA YANG  | 03/09/2012                       |
| <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:   | 15793763                         |
| <b>CORRESPONDENCE DATA</b>  |                                  |
| <b>Fax Number:</b>  | (312)616-5700                    |
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| <b>Email:</b>   | assignments@leydig.com           |
| <b>Correspondent Name:</b>  | LEYDIG, VOIT & MAYER, LTD.       |
| <b>Address Line 1:</b>  | TWO PRUDENTIAL PLAZA, SUITE 4900 |
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| <b>Address Line 4:</b>  | CHICAGO, ILLINOIS 60601-6731     |
| <b>ATTORNEY DOCKET NUMBER:</b>  | HW735987                         |
| <b>NAME OF SUBMITTER:</b>   | MARALEA ACHACOSO                 |
| <b>SIGNATURE:</b>   | /Maralea Achacoso/               |
| <b>DATE SIGNED:</b>   | 12/02/2019                       |
| <b>Total Attachments: 2</b>   |                                  |
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| source=ParentAssignment#page2.tif   |                                  |

**ASSIGNMENT**

**WHEREAS, WE,**

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

Ruina YANG  
Huawei Administration Building  
Bantian, Longgang District  
Shenzhen, 518129, Guangdong  
P.R. CHINA;

have invented and own a certain invention entitled:  
SIGNALING PROCESSING METHOD, BASE STATION, AND USER EQUIPMENT  
for which invention we have executed an application (provisional or non-provisional) for a U.S.  
patent, which was filed on 03/15/12, under U.S. Application No. \_\_\_\_\_ and  
13/421,535

**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  
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 re Appln. of Chen et al.  
Attorney Docket No. HW710035

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

Date March 9, 2012

Xiaobo CHEN  
Xiaobo CHEN

Date March 9, 2012

Qiang WU  
Witness

Date March 9, 2012

Jianqin, Liu  
Witness

Date March 9, 2012

Ruina YANG  
Ruina YANG

Date March 9, 2012

Lei GUAN  
Witness

Date March 9, 2012

Guangbin Xu  
Witness