

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>Xingxin ZHANG</td> <td>11/22/2012</td> </tr> <tr> <td>Xun YANG</td> <td>11/21/2012</td> </tr> <tr> <td>Tianyu WU</td> <td>11/21/2012</td> </tr> <tr> <td>Menghong LIU</td> <td>11/23/2012</td> </tr> </tbody> </table>		Name	Execution Date	Xingxin ZHANG	11/22/2012	Xun YANG	11/21/2012	Tianyu WU	11/21/2012	Menghong LIU	11/23/2012		
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<table border="1"> <tr> <td>Name:</td> <td>Huawei Technologies Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>Huawei Administration Building</td> </tr> <tr> <td>Internal Address:</td> <td>Bantian, Longgang District</td> </tr> <tr> <td>City:</td> <td>Shenzhen, Guangdong</td> </tr> <tr> <td>State/Country:</td> <td>CHINA</td> </tr> <tr> <td>Postal Code:</td> <td>518129</td> </tr> </table>		Name:	Huawei Technologies Co., Ltd.	Street Address:	Huawei Administration Building	Internal Address:	Bantian, Longgang District	City:	Shenzhen, Guangdong	State/Country:	CHINA	Postal Code:	518129
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CORRESPONDENCE DATA													
<p>Fax Number: 3126165700 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 312-616-5600 Email: assignments@leydig.com Correspondent Name: Leydig, Voit & Mayer, Ltd. Address Line 1: Two Prudential Plaza, Suite 4900 Address Line 2: 180 N. Stetson Avenue Address Line 4: Chicago, ILLINOIS 60601-6731</p>													
ATTORNEY DOCKET NUMBER:	HW711352												
NAME OF SUBMITTER:	John B. Conklin												
<p>Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif</p>													

CH \$40.00 13689445

PATENT

Attorney Docket No. HW711352
Client Reference No. 83261038US05

ASSIGNMENT

WHEREAS, WE,

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

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

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

Menghong LIU
Huawei Administration Building
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA;

have invented and own a certain invention entitled:
**METHOD AND APPARATUS FOR RETRIEVING TRANSMIT OPPORTUNITY
CONTROL IN REVERSE DIRECTION GRANT**

for which invention we have executed an application (provisional or non-provisional) for a U.S.
patent, which was filed on 11/29/2012, under U.S. Application No. _____ and
13/689,445

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 Appin. of Zhang et al.
Attorney Docket No. HW711352

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 Nov 22, 2012 Xingxin ZHANG
Xingxin ZHANG

Date NOV 22, 2012 Lei GAO
Witness

Date Nov 22, 2012 Jiasong Ning
Witness

Date _____ Xun YANG

Date _____
Witness

Date _____
Witness

Date _____ Tianyu WU

Date _____
Witness

Date _____
Witness

Date Nov 23, 2012 Menghong LIU
Menghong LIU

Date Nov 23, 2012 Jiasong Ning
Witness

Date Nov 23, 2012 Lei GAO
Witness

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

Date _____ Xingxin ZHANG

Date _____ Witness

Date _____ Witness

Date Nov 21, 2012 Xun YANG
Xun YANG

Date NOV. 21, 2012 Yunbo Li
Witness

Date NOV. 21, 2012 Min Yan
Witness

Date Nov 21, 2012 Tianyu Wu
Tianyu WU

Date NOV. 21, 2012 Yunbo Li
Witness

Date NOV. 21, 2012 Min Yan
Witness

Date _____ Menghong LIU

Date _____ Witness

Date _____ Witness