

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>Lei Miao</td> <td>08/01/2012</td> </tr> <tr> <td>Wenhai Wu</td> <td>08/01/2012</td> </tr> <tr> <td>Yue Lang</td> <td>07/31/2012</td> </tr> </tbody> </table>		Name	Execution Date	Lei Miao	08/01/2012	Wenhai Wu	08/01/2012	Yue Lang	07/31/2012
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Lei Miao	08/01/2012								
Wenhai Wu	08/01/2012								
Yue Lang	07/31/2012								
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>13584579</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13584579				
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Application Number:	13584579								
CORRESPONDENCE DATA									
Fax Number:	9726283616								
Phone:	972 628 3600								
Email:	patents@munckcarter.com								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</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								
Total Attachments: 4 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif									

CH \$40.00 13584579

ASSIGNMENT

WHEREAS, WE,

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

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

Yue LANG
Huawei Technologies Deutschland
GmbH, Riesstr. 25, 80992
München, Germany;

have invented and own a certain invention entitled:
STEREO SIGNAL DOWN-MIXING METHOD, ENCODING/DECODING APPARATUS AND
ENCODING and DECODING SYSTEM

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 Miao et al.
Attorney Docket No. _____

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 August 1, 2012 Lei MIAO
Lei MIAO

Date August 1, 2012 Fengyan QI
Witness

Date August 1, 2012 Zexin Lin
Witness

=====
Date August 1, 2012 Wenhai WU
Wenhai WU

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Witness

Date August 1, 2012 Zexin Lin
Witness

=====
Date _____ Yue LANG

Date _____
Witness

Date _____
Witness

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Date _____
Witness

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Date _____
Wenhai WU

Date _____
Witness

Date _____
Witness

=====

Date July. 31. 2012
Yue LANG

Date July. 31. 2012
Witness Jianfeng. XU.

Date July. 31. 2012
Witness Liyun PANG