

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3050978

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ZHIHUA SHI	09/26/2012
JIANJUN LIU	09/26/2012
QIXING WANG	09/26/2012
XIAODONG XU	09/26/2012
GUANGYI LIU	09/26/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CHINA MOBILE COMMUNICATIONS CORPORATION
<b>Street Address:</b>	29, JINRONG AVE.,
<b>Internal Address:</b>	XICHENG DISTRICT,
<b>City:</b>	BEIJING
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	100032
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	13641884
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(248)641-0270
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<b>Phone:</b>	2486411600
<b>Email:</b>	troydocketing@hdp.com, mcparrish@hdp.com
<b>Correspondent Name:</b>	HARNESS, DICKEY & PIERCE, P.L.C.
<b>Address Line 1:</b>	5445 CORPORATE DRIVE
<b>Address Line 2:</b>	SUITE 200
<b>Address Line 4:</b>	TROY, MICHIGAN 48098
<b>ATTORNEY DOCKET NUMBER:</b>	15157-000133-US-NP
<b>NAME OF SUBMITTER:</b>	MICHAEL MALINZAK
<b>SIGNATURE:</b>	/MichaelMalinzak/
<b>DATE SIGNED:</b>	10/03/2014
<b>Total Attachments: 3</b>	

PATENT

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**PATENT**

Attorney Docket No. \_\_\_\_\_  
Client Reference No. OP0012-01-0514

Harness, Dickey & Pierce, P.L.C.  
P. O. Box 828, Bloomfield Hills,  
Michigan 48303

**ASSIGNMENT**

**WHEREAS, WE,**

SHI, Zhihua  
29, Jinrong Ave., Xicheng District,  
Beijing 100032, P. R. China;

LIU, Jianjun  
29, Jinrong Ave., Xicheng District,  
Beijing 100032, P. R. China;

WANG, Qixing  
29, Jinrong Ave., Xicheng District,  
Beijing 100032, P. R. China;

XU, Xiaodong  
29, Jinrong Ave., Xicheng District,  
Beijing 100032, P. R. China;

LIU, Guangyi  
29, Jinrong Ave., Xicheng District,  
Beijing 100032, P. R. China;

have invented and own a certain invention entitled:

**METHOD, APPARATUS AND SYSTEM FOR SENDING AND RECEIVING SOUNDING  
REFERENCE SIGNAL**

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on October 18, 2012, under U.S. Application No. 13/641,884, as the National Phase of PCT/CN2011/073053 filed on April 20, 2011; and

**WHEREAS, CHINA MOBILE COMMUNICATIONS CORPORATION OF 29, Jinrong Ave., Xicheng District, Beijing 100032, 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.

**PATENT**

**REEL: 033879 FRAME: 0788**

In re Appln. of et al.  
Attorney Docket No. \_\_\_\_\_

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

Date 2012-09-26 Zhihua SHI  
SHI, Zhihua

Date 2012-09-26 Wang Rui  
Witness

Date 2012-09-26 Miao Qiang  
Witness

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Date 2012-9-26 LIU, Jianjun  
LIU, Jianjun

Date 2012-9-26 Wang Rui  
Witness

Date 2012-9-26 Miao Qiang  
Witness

=====

Date 2012-9-26 WANG Qixing  
WANG, Qixing

Date 2012-9-26 Wang Rui  
Witness

Date 2012-9-26 Miao Qiang  
Witness

=====

In re Appln. of et al.  
Attorney Docket No. \_\_\_\_\_

Date 2012-9-26

XU, Xiaodong  
XU, Xiaodong

Date 2012-9-26

Wang Rui  
Witness

Date 2012-9-26

Miao Qiang  
Witness

Date 2012-9-26

LIU, Guangyi  
LIU, Guangyi

Date 2012-9-26

Wang Rui  
Witness

Date 2012-9-26

Miao Qiang  
Witness