

## 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>Xuqiang SHEN</td> <td>08/26/2013</td> </tr> <tr> <td>Xiaojian DONG</td> <td>08/26/2013</td> </tr> </tbody> </table>		Name	Execution Date	Xuqiang SHEN	08/26/2013	Xiaojian DONG	08/26/2013						
Name	Execution Date												
Xuqiang SHEN	08/26/2013												
Xiaojian DONG	08/26/2013												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>Spreadtrum Communications (Shanghai) Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>Spreadtrum Center, Building No. 1, Lane 2288</td> </tr> <tr> <td>Internal Address:</td> <td>Zuchongzhi Road,</td> </tr> <tr> <td>City:</td> <td>Shanghai</td> </tr> <tr> <td>State/Country:</td> <td>CHINA</td> </tr> <tr> <td>Postal Code:</td> <td>201203</td> </tr> </table>		Name:	Spreadtrum Communications (Shanghai) Co., Ltd.	Street Address:	Spreadtrum Center, Building No. 1, Lane 2288	Internal Address:	Zuchongzhi Road,	City:	Shanghai	State/Country:	CHINA	Postal Code:	201203
Name:	Spreadtrum Communications (Shanghai) Co., Ltd.												
Street Address:	Spreadtrum Center, Building No. 1, Lane 2288												
Internal Address:	Zuchongzhi Road,												
City:	Shanghai												
State/Country:	CHINA												
Postal Code:	201203												
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>14002120</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14002120								
Property Type	Number												
Application Number:	14002120												
CORRESPONDENCE DATA													
<p>Fax Number: 415-576-03  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 415-576-0200        Email: lsun@kilpatricktownsend.com        Correspondent Name: KILPATRICK TOWNSEND &amp; STOCKTON LLP        Address Line 1: TWO EMBARCADERO CENTER        Address Line 2: EIGHTH FLOOR        Address Line 4: SAN FRANCISCO, CALIFORNIA 94111-3834</p>													
ATTORNEY DOCKET NUMBER:	93506-884593 (003300US)												
NAME OF SUBMITTER:	Charles W. Gray												
Signature:	/Charles W. Gray/												
Date:	08/29/2013												
Total Attachments: 1 source=Assignment#page1.tif													

OP \$40.00 14002120

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, **SHEN, Xuqiang** a resident of China; **DONG, Xiaojian** a resident of China, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: METHODS AND APPARATUS FOR NOISE ESTIMATION OF  
COMMUNICATION TERMINALS

Filing Date: Herewith

Application No.: To be assigned ; and

WHEREAS, **Spreadtrum Communications (Shanghai) Co., Ltd.**, located at Spreadtrum Center, Building No. 1, Lane 2288, Zuchongzhi Road, Zhangjiang, Shanghai 201203, P.R. China, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignor, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Kilpatrick Townsend & Stockton LLP, Two Embarcadero Center, Eighth Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: Aug. 26, 2013

SHEN, Xuqiang  
SHEN, Xuqiang

Dated: Aug. 26, 2013

DONG, Xiaojian  
DONG, Xiaojian