

## 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>Yunfeng SUN</td> <td>11/28/2011</td> </tr> <tr> <td>Wenfeng ZHANG</td> <td>11/28/2011</td> </tr> <tr> <td>Jing JIANG</td> <td>11/28/2011</td> </tr> <tr> <td>Junfeng ZHANG</td> <td>11/28/2011</td> </tr> </tbody> </table>		Name	Execution Date	Yunfeng SUN	11/28/2011	Wenfeng ZHANG	11/28/2011	Jing JIANG	11/28/2011	Junfeng ZHANG	11/28/2011		
Name	Execution Date												
Yunfeng SUN	11/28/2011												
Wenfeng ZHANG	11/28/2011												
Jing JIANG	11/28/2011												
Junfeng ZHANG	11/28/2011												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>ZTE CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>ZTE Plaza, Keji Road South</td> </tr> <tr> <td>Internal Address:</td> <td>Hi-Tech Industrial Park, Nanshan District</td> </tr> <tr> <td>City:</td> <td>Shenzhen City, Guangdong Province</td> </tr> <tr> <td>State/Country:</td> <td>CHINA</td> </tr> <tr> <td>Postal Code:</td> <td>518057</td> </tr> </table>		Name:	ZTE CORPORATION	Street Address:	ZTE Plaza, Keji Road South	Internal Address:	Hi-Tech Industrial Park, Nanshan District	City:	Shenzhen City, Guangdong Province	State/Country:	CHINA	Postal Code:	518057
Name:	ZTE CORPORATION												
Street Address:	ZTE Plaza, Keji Road South												
Internal Address:	Hi-Tech Industrial Park, Nanshan District												
City:	Shenzhen City, Guangdong Province												
State/Country:	CHINA												
Postal Code:	518057												
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>13257662</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13257662								
Property Type	Number												
Application Number:	13257662												
CORRESPONDENCE DATA													
<p>Fax Number: (301)251-0237</p> <p>Phone: 301-525-2842</p> <p>Email: info@lingandyang.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Ling Wu</p> <p>Address Line 1: P.O. Box 1747</p> <p>Address Line 4: Rockville, MARYLAND 20849</p>													
ATTORNEY DOCKET NUMBER:	AFD111101532-US												
NAME OF SUBMITTER:	Ling Wu												

CH \$40.00 13257662

Total Attachments: 5

source=Assignment#page1.tif

source=Assignment#page2.tif

source=Assignment#page3.tif

source=Assignment#page4.tif

source=Assignment#page5.tif

**ASSIGNMENT  
OF UTILITY PATENT APPLICATION**

WHEREAS, the following parties:

<u>Name</u>	<u>Address</u>
SUN, Yunfeng	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen City, Guangdong Province 518057, P. R. China
ZHANG, Wenfeng	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen City, Guangdong Province 518057, P. R. China
JIANG, Jing	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen City, Guangdong Province 518057, P. R. China
ZHANG, Junfeng	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen City, Guangdong Province 518057, P. R. China

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements ("invention(s)") as described and set forth in the below-identified utility application for United States Patent entitled:

Pre-coding Method and Apparatus Based on Mixed Multiplexing Demodulation Reference Signals  
(PCT Application No.: PCT/CN2010/079954)

which was:

- ☐ executed on even date herewith,  
☒ filed with the United States Patent and Trademark Office (USPTO) on September 20, 2011, and assigned Serial No. 13/257,662, and  
☐ further described in U.S. Provisional application entitled \_\_\_\_\_, filed with the USPTO on \_\_\_\_\_, and assigned Serial No. \_\_\_\_\_.

*Note: Only one of the first two checkboxes will be checked. The third checkbox will be checked, only if appropriate.*

WHEREAS,

having a place of following parties:

<u>Name</u>	<u>Address</u>
-------------	----------------

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech  
Industrial Park, Nanshan District, Shenzhen  
City, Guangdong Province 518057, P. R. China

, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in and to said invention(s), said utility application, said provisional application, and any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said invention(s), said utility application, and said Provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said inventions, including all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said invention(s), said utility application, and said provisional application for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

ASSIGNOR authorizes ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said Inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of ASSIGNEE to apply for patent or other form of protection for said Inventions, said utility application, or said provisional application and to claim the aforesaid benefit of the right of priority.

ASSIGNOR requests that any and all patents for said inventions be issued to ASSIGNEE in the U.S. and to ASSIGNEE in all countries foreign to the U.S., or to such nominee as ASSIGNEE may designate.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR's behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 28 day of  
November, 2011.

Inventor : SUN Yunfeng  
SUN, Yunfeng (Signature)

Witness:

Signature: CHEN DongLi

Name: Chen,DongLi

Address: ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen City, Guangdong Province 518057, P. R. China

IN TESTIMONY WHEREOF, I have hereunto set my hand this 28 day of  
November, 2011.

Inventor : ZHANG Wenfeng  
ZHANG, Wenfeng (Signature)

Witness:

Signature: CHEN DongLi

Name: Chen,DongLi

Address: ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen City, Guangdong Province 518057, P. R. China

IN TESTIMONY WHEREOF, I have hereunto set my hand this 28 day of  
November, 2011.

Inventor : JIANG Jing  
JIANG, Jing (Signature)

Witness:

Signature: CHEN DongLi

Name: Chen,DongLi

Address: ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen City, Guangdong Province 518057, P. R. China

IN TESTIMONY WHEREOF, I have hereunto set my hand this 28 day of  
November, 2011.

Inventor : ZHANG Junfeng  
ZHANG, Junfeng (Signature)

Witness:

Signature: CHEN DongLi

Name: Chen,DongLi

Address: ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District,  
Shenzhen City, Guangdong Province 518057, P. R. China