

|                                      |
|--------------------------------------|
| <b>PATENT ASSIGNMENT COVER SHEET</b> |
|--------------------------------------|

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4503208

|   |   |
|---|---|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT  |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT  |
| <b>CONVEYING PARTY DATA</b>   |   |
| <b>Name</b>   | <b>Execution Date</b>                                 |
| ZTE CORPORATION   | 07/03/2017  |
| <b>RECEIVING PARTY DATA</b>   |   |
| <b>Name:</b>  | XI'AN ZHONGXING NEW SOFTWARE CO., LTD.                |
| <b>Street Address:</b>  | NO.1 DONGXI SIHAO ROAD, COMMUNICATION INDUSTRIAL PARK |
| <b>Internal Address:</b>  | HI-TECH DISTRICT                                      |
| <b>City:</b>  | XI'AN, SHAANXI  |
| <b>State/Country:</b>   | CHINA   |
| <b>Postal Code:</b>   | 710114  |
| <b>PROPERTY NUMBERS Total: 1</b>  |   |
| <b>Property Type</b>  | <b>Number</b>   |
| <b>Application Number:</b>  | 14650035  |
| <b>CORRESPONDENCE DATA</b>  |   |
| <b>Fax Number:</b>  | (301)251-0237   |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |   |
| <b>Phone:</b>   | 301-525-2842  |
| <b>Email:</b>   | info@lingandyang.com                                  |
| <b>Correspondent Name:</b>  | LING WU   |
| <b>Address Line 1:</b>  | P.O. BOX 1747   |
| <b>Address Line 4:</b>  | ROCKVILLE, MARYLAND 20849                             |
| <b>ATTORNEY DOCKET NUMBER:</b>  | US1500551   |
| <b>NAME OF SUBMITTER:</b>   | LING WU   |
| <b>SIGNATURE:</b>   | /Ling Wu/   |
| <b>DATE SIGNED:</b>   | 07/13/2017  |
| <b>Total Attachments: 2</b>   |   |
| source=Assignment#page1.tif   |   |
| source=Assignment#page2.tif   |   |

**ASSIGNMENT**

Whereas, ZTE Corporation, having an address of ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen City, Guangdong Province 518057, P. R. China (ASSIGNOR), is the owner of certain U.S. applications/patents listed on the attached List of Applications/Patents (LISTED APPLICATIONS/PATENTS);

Whereas, XI'AN ZHONGXING NEW SOFTWARE CO., LTD., having an address of No.1 DongXi SiHao Road, Communication Industrial Park, Hi-tech district, Xi'An, Shaanxi 710114, China (ASSIGNEE), desires to take ownership of the Listed Applications/Patents;

Now, therefore, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby assigns to ASSIGNEE all right, title and interest in the LISTED APPLICATIONS/PATENTS.

**On behalf of ZTE Corporation:**

Qi, Lina  
Name of Person Signing

July 3, 2017  
Date

Qi, Lina  
Signature

**On behalf of XI'AN ZHONGXING  
NEW SOFTWARE CO., LTD.**

Ji, Xiaoying  
Name of Person Signing

July 3, 2017  
Date

Ji, Xiaoying  
Signature

**LISTED APPLICATIONS/PATENTS**

| <b>ZTE Reference Number</b> | <b>US Patent Application Number</b> | <b>PCT Application Number</b> | <b>PCT Application Date</b> | <b>US Patent Number</b> | <b>AFD Reference Number</b> |
|-----------------------------|-------------------------------------|-------------------------------|-----------------------------|-------------------------|-----------------------------|
| ZX130548-PCTSS              | 14/650,035                          | PCT/CN2013/079920             | 2013/7/23                   |                         | 111505789-US                |
| ZX131873-PCTSS              | 14/761,899                          | PCT/CN2013/086202             | 2013/10/30                  |                         | 111505871-US                |
| ZX131458-PCTSS              | 14/761,625                          | PCT/CN2013/082828             | 2013/9/3                    |                         | 111505286-US                |
| ZX122165-PCTSS              | 14/406,381                          | PCT/CN2012/087550             | 2012/12/26                  |                         | 111405250-US                |
| ZX141040-PCT                | 15/110,153                          | PCT/CN2014/079170             | 2014/6/4                    |                         | 111606612-US                |
| ZX131107-PCTSS              | 14/416,704                          | PCT/CN2013/082097             | 2013/8/22                   |                         | 111404963-US                |
| ZX140049-PCT                | 15/107,465                          | PCT/CN2014/072525             | 2014/2/25                   |                         | 111606527-US                |
| ZX113235-PCTSS              | 14/375,900                          | PCT/CN2011/085107             | 2011/12/31                  |                         | 111404667-US                |
| ZX130170-PCTSS              | 14/386,879                          | PCT/CN2013/075172             | 2013/5/6                    |                         | 111404716-US                |
| ZX140380-PCT                | 15/029,633                          | PCT/CN2014/075676             | 2014/4/18                   |                         | 111606489-US                |