

## 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>Qinglin Luo</td> <td>01/07/2013</td> </tr> <tr> <td>Jing Shi</td> <td>01/07/2013</td> </tr> <tr> <td>Yan Zhao</td> <td>01/07/2013</td> </tr> </tbody> </table>   |                   | Name          | Execution Date | Qinglin Luo         | 01/07/2013        | Jing Shi | 01/07/2013 | Yan Zhao       | 01/07/2013 |              |       |
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| Qinglin Luo  | 01/07/2013        |               |                |                     |                   |          |            |                |            |              |       |
| Jing Shi   | 01/07/2013        |               |                |                     |                   |          |            |                |            |              |       |
| Yan Zhao   | 01/07/2013        |               |                |                     |                   |          |            |                |            |              |       |
| RECEIVING PARTY DATA   |                   |               |                |                     |                   |          |            |                |            |              |       |
| <table border="1"> <tr> <td>Name:</td> <td>Alcatel Lucent</td> </tr> <tr> <td>Street Address:</td> <td>54, rue La Boetie</td> </tr> <tr> <td>City:</td> <td>Paris</td> </tr> <tr> <td>State/Country:</td> <td>FRANCE</td> </tr> <tr> <td>Postal Code:</td> <td>75008</td> </tr> </table>   |                   | Name:         | Alcatel Lucent | Street Address:     | 54, rue La Boetie | City:    | Paris      | State/Country: | FRANCE     | Postal Code: | 75008 |
| Name:  | Alcatel Lucent    |               |                |                     |                   |          |            |                |            |              |       |
| Street Address:  | 54, rue La Boetie |               |                |                     |                   |          |            |                |            |              |       |
| City:  | Paris             |               |                |                     |                   |          |            |                |            |              |       |
| State/Country:   | FRANCE            |               |                |                     |                   |          |            |                |            |              |       |
| Postal Code:   | 75008             |               |                |                     |                   |          |            |                |            |              |       |
| 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>13810487</td> </tr> </tbody> </table>  |                   | Property Type | Number         | Application Number: | 13810487          |          |            |                |            |              |       |
| Property Type  | Number            |               |                |                     |                   |          |            |                |            |              |       |
| Application Number:  | 13810487          |               |                |                     |                   |          |            |                |            |              |       |
| CORRESPONDENCE DATA  |                   |               |                |                     |                   |          |            |                |            |              |       |
| <p>Fax Number: 2163639001<br/> <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 216.363.9000<br/>       Email: rgiuliani@faysharpe.com<br/>       Correspondent Name: FAY SHARPE/LUCENT<br/>       Address Line 1: 1228 Euclid Avenue, 5th Floor<br/>       Address Line 2: The Halle Building<br/>       Address Line 4: Cleveland, OHIO 44115-1843</p> |                   |               |                |                     |                   |          |            |                |            |              |       |
| ATTORNEY DOCKET NUMBER:  | LUTZ 201603US01   |               |                |                     |                   |          |            |                |            |              |       |
| NAME OF SUBMITTER:   | Joseph D. Dreher  |               |                |                     |                   |          |            |                |            |              |       |
| <p>Total Attachments: 2<br/>       source=assignment#page1.tif<br/>       source=assignment#page2.tif</p>  |                   |               |                |                     |                   |          |            |                |            |              |       |

OP \$40.00 13810487

# ASSIGNMENT

ASSIGNMENT

ALU No. 807575

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

## **A method for calibrating antenna reciprocity in a base station of wireless network and a device thereof**

for which Assignor is about to make or has made United States or International application for patent

- (a) ☐ executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
- (b) ☐ executed on \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_; or
- (c) ☒ was filed on July 15, 2011 as Application Serial No. or PCT International Application No. PCT/IB2011/001866 and was amended on \_\_\_\_\_  
\_\_\_\_ (if applicable).

WHEREAS, Alcatel Lucent, 54, rue La Boétie, 75008, Paris, France, hereinafter referred to as Assignee, is desirous of acquiring all right, title, and interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor agrees to, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the invention as described in the aforesaid application and all United States Letters Patent which may be granted therefore, and all divisions, continuations, reissues, reexaminations and extensions thereof, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications or patents resulting therefrom;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

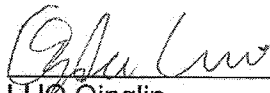
Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

The undersigned hereby grant(s) the law firm of Fay Sharpe, LLP. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

ASSIGNMENT

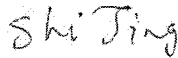
ALU No. 807575



LUO Qinglin

2013.1.7

Dated



SHI Jing

2013.1.7

Dated



ZHAO Yan

2013.1.7

Dated