

## 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>Miguel ARRANZ ARAUZO</td> <td>11/29/2011</td> </tr> <tr> <td>Javier LOPEZ ROMAN</td> <td>11/29/2011</td> </tr> <tr> <td>Julio URBANO RUIZ</td> <td>11/29/2011</td> </tr> <tr> <td>Clara SERRANO SOLSONA</td> <td>11/29/2011</td> </tr> <tr> <td>Mai TRAN LE</td> <td>11/29/2011</td> </tr> </tbody> </table>                   |                               | Name          | Execution Date                | Miguel ARRANZ ARAUZO | 11/29/2011     | Javier LOPEZ ROMAN | 11/29/2011                  | Julio URBANO RUIZ | 11/29/2011     | Clara SERRANO SOLSONA | 11/29/2011 | Mai TRAN LE | 11/29/2011 |
| Name   | Execution Date                |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| Miguel ARRANZ ARAUZO   | 11/29/2011                    |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| Javier LOPEZ ROMAN   | 11/29/2011                    |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| Julio URBANO RUIZ  | 11/29/2011                    |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| Clara SERRANO SOLSONA  | 11/29/2011                    |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| Mai TRAN LE  | 11/29/2011                    |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| RECEIVING PARTY DATA   |                               |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| <table border="1"> <tr> <td>Name:</td> <td>VODAFONE IP LICENSING LIMITED</td> </tr> <tr> <td>Street Address:</td> <td>The Connection</td> </tr> <tr> <td>City:</td> <td>Newbury, Berkshire RG14 2FN</td> </tr> <tr> <td>State/Country:</td> <td>UNITED KINGDOM</td> </tr> </table>   |                               | Name:         | VODAFONE IP LICENSING LIMITED | Street Address:      | The Connection | City:              | Newbury, Berkshire RG14 2FN | State/Country:    | UNITED KINGDOM |                       |            |             |            |
| Name:  | VODAFONE IP LICENSING LIMITED |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| Street Address:  | The Connection                |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| City:  | Newbury, Berkshire RG14 2FN   |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| State/Country:   | UNITED KINGDOM                |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| 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>13280511</td> </tr> </tbody> </table>  |                               | Property Type | Number                        | Application Number:  | 13280511       |                    |                             |                   |                |                       |            |             |            |
| Property Type  | Number                        |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| Application Number:  | 13280511                      |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| CORRESPONDENCE DATA  |                               |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| <p>Fax Number: (703)739-9577</p> <p>Phone: 703-739-4900</p> <p>Email: iplaw@stites.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: STITES &amp; HARBISON PLLC</p> <p>Address Line 1: 1199 NORTH FAIRFAX STREET, SUITE 900</p> <p>Address Line 2: B. AARON SCHULMAN</p> <p>Address Line 4: ALEXANDRIA, VIRGINIA 22314</p> |                               |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| ATTORNEY DOCKET NUMBER:  | P10462US00/BAS                |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| NAME OF SUBMITTER:   | Stacy Johnson                 |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |
| <p>Total Attachments: 2</p> <p>source=P10462US00Assignment#page1.tif</p> <p>source=P10462US00Assignment#page2.tif</p>  |                               |               |                               |                      |                |                    |                             |                   |                |                       |            |             |            |

OP \$40.00 13280511

## ASSIGNMENT OF PATENT APPLICATION

*(US rights only - all US rights assigned by inventors to a single assignee)*

WHEREAS,

- 1) Miguel ARRANZ ARAUZO
- 2) Javier LOPEZ ROMAN
- 3) Julio URBANO RUIZ
- 4) Clara SERRANO SOLSONA
- 5) Mai TRAN LE

residing respectively at

- 1) c/o Vodafone España S.A.U., Area de Tecnologia, c/ Isabel Colbrand 22, Parque Empresarial, Castellana Norte, E-28050, Madrid SPAIN
- 2) c/o Vodafone España S.A.U., Area de Tecnologia, c/ Isabel Colbrand 22, Parque Empresarial, Castellana Norte, E-28050, Madrid SPAIN
- 3) c/o Vodafone España S.A.U., Area de Tecnologia, c/ Isabel Colbrand 22, Parque Empresarial, Castellana Norte, E-28050, Madrid SPAIN
- 4) c/o Vodafone España S.A.U., Area de Tecnologia, c/ Isabel Colbrand 22, Parque Empresarial, Castellana Norte, E-28050, Madrid SPAIN
- 5) c/o Vodafone Limited, Vodafone House, The Connection, Newbury, Berkshire RG14 2FN, UNITED KINGDOM.

(hereinafter referred to as the "ASSIGNOR") has/have invented certain new and useful improvements in Antenna Arrangement

for which an application for a United States Patent

- ☐ was executed on even date herewith
- ☐ was executed on
- ☒ was filed on October 25, 2011, as Application No.: 13/280,511

And WHEREAS, **Vodafone IP Licensing Limited**

whose Post Office Address is The Connection, Newbury, Berkshire RG14 2FN, United Kingdom

(hereinafter referred to as the "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to said application and the invention(s) and improvement(s) therein disclosed, for the United States of America, and any Letters Patent which may issue therefor in the United States and all divisions, continuations, reissues, renewals and/or extensions thereof.

NOW THEREFORE in consideration of the sum of ten U.S. dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the ASSIGNOR does hereby assign, sell, transfer and set over unto the ASSIGNEE the entire right, title and interest in and to said application and the invention(s) and improvement(s) therein disclosed, for the United States of America, and any Letters Patent which may issue therefor in the United States and all divisions, continuations, reissues, renewals and/or extensions thereof, said ASSIGNEE to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, continuations, reissues, renewals and/or extensions

- 1 -

**Stites & Harbison PLLC** • 1199 North Fairfax Street • Suite 900 • Alexandria Virginia 22314

2183LT:20355:226368:1:ALEXANDRIA

**PATENT**  
**REEL: 027594 FRAME: 0642**


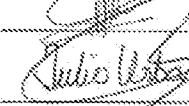
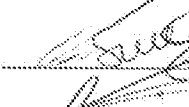
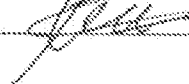

thereof, respectively, as fully and entirely as the same would have been held and enjoyed by the ASSIGNOR had this assignment not been made.

And for the consideration aforesaid, ASSIGNOR agrees that ASSIGNOR will communicate to said ASSIGNEE or the representatives thereof any facts known to ASSIGNOR respecting the invention(s) and improvement(s) of the said United States application, and will, upon request, but without expense to ASSIGNOR, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said ASSIGNEE or by counsel for said ASSIGNEE, to assist or enable said ASSIGNEE to obtain and enforce full benefits from the rights and interests herein assigned.

This assignment shall be binding upon the ASSIGNOR's heirs, executors, administrators, successors and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of the ASSIGNEE.

The Commissioner of Patents is requested to issue such Letters Patent in accordance with this assignment.

I hereby authorize and request any attorney of record in said Application or any attorney of Stites & Harbison, PLLC, Customer Nos. 881, 24350 or 32885, to insert above any information concerning the identity of the parties or of said Application (including the serial no. and filing date).

| <u>NAME</u>              | <u>SIGNATURE</u>  | <u>DATE</u> |
|--------------------------|---|-------------|
| 1) Miguel ARRANZ ARAUZO  |  | 29/11/2011  |
| 2) Javier LOPEZ ROMAN    |  | 29-11-2011  |
| 3) Julio URBANO RUIZ     |  | 29/11/2011  |
| 4) Clara SERRANO SOLSONA |  | 29-11-2011  |
| 5) Mai TRAN LE           |  | 29-11-2011  |