

PATENT ASSIGNMENT

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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>David Andrew FOX</td><td>10/28/2011</td></tr><tr><td>Youssef CHAMI</td><td>10/28/2011</td></tr><tr><td>Steve ALLEN</td><td>10/03/2011</td></tr><tr><td>John McCRACKEN</td><td>11/21/2011</td></tr><tr><td>Matthew CHENG</td><td>11/01/2011</td></tr><tr><td>Marina GALLEGLO-LOPEZ</td><td>10/28/2011</td></tr></tbody></table>		Name	Execution Date	David Andrew FOX	10/28/2011	Youssef CHAMI	10/28/2011	Steve ALLEN	10/03/2011	John McCRACKEN	11/21/2011	Matthew CHENG	11/01/2011	Marina GALLEGLO-LOPEZ	10/28/2011
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RECEIVING PARTY DATA															
<table border="1"><tr><td>Name:</td><td>VODAFONE IP LICENSING LIMITED</td></tr><tr><td>Street Address:</td><td>Vodafone House, The Connection</td></tr><tr><td>City:</td><td>Newbury, Berkshire</td></tr><tr><td>State/Country:</td><td>UNITED KINGDOM</td></tr><tr><td>Postal Code:</td><td>RG14 2FN</td></tr></table>		Name:	VODAFONE IP LICENSING LIMITED	Street Address:	Vodafone House, The Connection	City:	Newbury, Berkshire	State/Country:	UNITED KINGDOM	Postal Code:	RG14 2FN				
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Application Number:	13135438														
CORRESPONDENCE DATA															
Fax Number: (508)898-8602															
Phone: (508) 898-8601															
Email: Docketing@westboro-ip.com															
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>															
Correspondent Name: Donald W. Muirhead															
Address Line 1: Muirhead and Saturnelli, LLC															
Address Line 2: 200 Friberg Parkway, Suite 1001															
Address Line 4: Westborough, MASSACHUSETTS 01581															
ATTORNEY DOCKET NUMBER:	VPM-10101														

501730687

PATENT
REEL: 027261 FRAME: 0914

OP \$40.00 13135438

NAME OF SUBMITTER:

Donald W. Muirhead

Total Attachments: 4

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ASSIGNMENT

WHEREAS, each of the undersigned has developed certain inventions described in a U.S. patent application entitled:

TELECOMMUNICATION NETWORKS

- () executed on even date herewith;
() executed on _____;
(X) now **U.S. Patent Application No. 13/135,438 filed July 5, 2011;**

and has full right to convey their entire interest both legal and equitable in and to said inventions free from all prior assignments, agreements, licenses, mortgages, security interests, or other encumbrances whatsoever; and





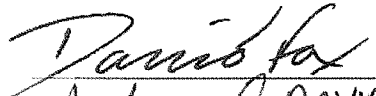

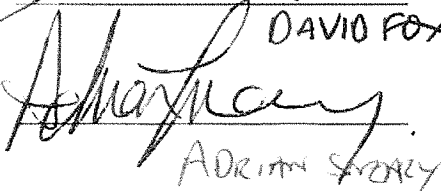
WHEREAS, **Vodafone IP Licensing Limited** ("ASSIGNEE"), a corporation having offices at Vodafone House, The Connection, Newbury, Berkshire RG14 2FN, GREAT BRITAIN, is desirous of acquiring the entire right, title and interest in and to said inventions and any and all patents to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by each of the undersigned, each of the undersigned hereby sells, assigns, transfers and sets over unto said ASSIGNEE, its successors and assigns, the entire right, title and interest throughout the world in and to said inventions, as described in the aforesaid application, and all applications resulting therefrom, including any and all divisionals, continuations, continuations-in-part, substitute applications, and reissues or extensions thereof; and all resulting patents;

AND, each of the undersigned hereby authorizes and requests the issuing authority to issue any and all patents on said application or applications to said ASSIGNEE or its successors and assigns; each of the undersigned agrees that the attorney of record shall hereinafter act on behalf of said ASSIGNEE;

AND, each of the undersigned further agrees, without any further payment or compensation by said ASSIGNEE or its successors and assigns, to communicate to said ASSIGNEE, its representatives or agents or its successors and assigns, any facts relating to said inventions including evidence for interference purposes or for other legal proceedings whenever requested; to testify in any interference or other legal proceedings, whenever requested; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally to do everything possible to aid said ASSIGNEE, its successors or assigns and nominees to secure, obtain and enforce proper patent protection for said inventions in this or any foreign country;

Each of the undersigned hereby authorizes Muirhead and Saturnelli, LLC, 200 Friberg Parkway, Suite 1001, Westborough, MA 01581 to insert hereon any further identification information necessary or desirable for recordation of this document.

<u>Inventor(s)</u>	<u>Date Signed</u>	<u>Witness</u>
1. <u></u> Name: David Andrew FOX	<u> 2011-10-28</u>	<u></u> M. TAIT
2. _____ Name: Youssef CHAMI	_____	_____
3. <u></u> Name: Steve ALLEN	<u>31/10/2011</u>	<u></u> DAVID FOX
4. <u></u> Name: John McCracken	<u>21/11/2011</u>	<u></u> ADRIAN SMYTH

Additional Inventors listed on page 2....

ASSIGNMENT
(continued)

5. M. H. Cheng
Name: **Matthew CHENG**

01/11/2011

M. Tait
M. TAIT

6. Marina
Name: **Marina GALLEGGO-LOPEZ**

28/10/2011

R. Hemmett
R. HEMMETT

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1. _____ Name: David Andrew FOX	_____	_____
2. <u>Youssef CHAMI</u> Name: Youssef CHAMI	28/10/2011	<u>ANU SHRESTHA</u> ANU SHRESTHA
3. _____ Name: Steve ALLEN	_____	_____
4. _____ Name: John McCracken	_____	_____

Additional Inventors listed on page 2....

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(continued)

5. _____
Name: **Matthew CHENG**

6. _____
Name: **Marina GALLEGGO-LOPEZ**