PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2897352

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAVID A. FOX	05/12/2014
GAVIN WONG	06/02/2014
JOSE-LUIS CARRIZO-MARTINEZ	05/09/2014

RECEIVING PARTY DATA

Name:	VODAFONE IP LICENSING LIMITED
Street Address:	THE CONNECTION
City:	NEWBURY, BERKSHIRE
State/Country:	UNITED KINGDOM
Postal Code:	RG14 2FN

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14226958

CORRESPONDENCE DATA

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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.

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Correspondent Name: MUIRHEAD AND SATURNELLI, LLC

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Address Line 2: SUITE 1001

Address Line 4: WESTBOROUGH, MASSACHUSETTS 01581

ATTORNEY DOCKET NUMBER:	VPM-044USCON1
NAME OF SUBMITTER:	DONALD W. MUIRHEAD
SIGNATURE:	/Donald W. Muirhead/
DATE SIGNED:	06/13/2014

Total Attachments: 9

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PATENT REEL: 033097 FRAME: 0029 Vodafone Reference: P000253-US-CNT Attorney Docket No.: VPM-044USCON1

COMBINED DECLARATION AND ASSIGNMENT

DECLARATION

TITLE OF APPLICATION: TELECOMMUNICATIONS NETWORKS AND DEVICES

As a below named inventor, I hereby declare that:

This declaration and assignment is directed to:

United States Application No. 14/226,958 filed on March 27, 2014.

The above-identified application was made or authorized to be made by me.

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claim(s). I believe that I am the original inventor or an original joint inventor of one or more claimed inventions in the above-identified application.

I hereby state that I am aware of the duty to disclose all information which is material to patentability as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNMENT

I, as Assignor, am desirous to assign and transfer the entire right, title and interest in and to one or more inventions disclosed in the above-identified application, the above-identified application and any and all letters patent which may be granted for the one or more inventions in the United States of America and its territorial possessions and in any and all foreign countries.

Vodafone IP Licensing Limited ("Assignee"), a corporation of the Country of Great Britain having a place of business at The Connection, Newbury, Berkshire, RG14 2FN, United Kingdom, is desirous of acquiring the entire right, title and interest in and to the one or more inventions, the above-identified application, and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries.

In exchange for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby assign and transfer unto the Assignee, the entire right, title and interest in and to the one or more inventions, the above-identified application, any earlier filed provisional applications to which the above-identified application claims priority including any inventions disclosed therein and the right to claim priority thereto, and any and all letters patent which may be granted for the one or more inventions in the United States of America and its territorial possessions and in any and all foreign countries, and any and all divisions, reissues, continuations, continuation-in-parts, and

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Attorney Docket No.: VPM-044USCON1

substitutes thereof, including the right to file foreign applications directly in the name of Assignee and to claim priority rights deriving from the above-identified application to which the foreign applications are entitled by virtue of international convention, treaty or otherwise, the one or more inventions, the above-identified application and all letters patent on the one or more inventions to be held and enjoyed by Assignee and its successors and assigns for their use and benefit as fully and entirely as the same would have been held and enjoyed by myself had this assignment, transfer and sale not been made.

I hereby authorize and request the Director of the United States Patent and Trademark Office to issue all letters patent on the inventions to Assignee.

I hereby covenant that no assignment, sale, agreement, or encumbrance has been or will be made or entered into which would conflict with this Assignment.

I agree to execute all documents and to perform all other lawful acts required for the making and prosecution of applications for United States and foreign letters patent on the one or more inventions, for litigation regarding the letters patent, or for the purpose of protecting title to the one or more inventions or letters patent therefor.

Legal Name of Inventor(s)

David	A	FOX
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
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Date: 12/05/78.		
Timothy		FROST
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor's signature:		
Date:,		
Gavin		WONG

Vodatolie Reference, POOO255-O5-CIVI		Attorney Docket No.: VPM-044USCON1
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
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Date:,		
Jonathon		BATKIN
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor's signature:		
Date:,		
Jose-Luis		CARRIZO-MARTINEZ
(GIVEN NAME)	MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor's signature:		
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priority including any inventions disclosed therein and the right to claim priority thereto, and any and all letters patent which may be granted for the one or more inventions in the United States of America and its territorial possessions and in any and all foreign countries, and any and all divisions, reissues, continuations, continuation-in-parts, and substitutes thereof, including the right to file foreign applications directly in the name of Assignee and to claim priority rights deriving from the above-identified application to which the foreign applications are entitled by virtue of international convention, treaty or otherwise, the one or more inventions, the above-identified application and all letters patent on the one or more inventions to be held and enjoyed by Assignee and its successors and assigns for their use and benefit as fully and entirely as the same would have been held and enjoyed by myself had this assignment, transfer and sale not been made.

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Legal Name of Inventor(s

David		FOX
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor's signature:		
Date:,		
Timothy		FROST

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Detai		
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Gavin (GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor's signature:	ian lu	
Date:	2014	
Jonathon		BATKIN
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor's signature:		
Date:, _		
Jose-Luis		CARRIZO-MARTINEZ
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
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David **FOX** (GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME) Inventor's signature: Date: **Timothy FROST** (GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME) Inventor's signature: Date: Gavin WONG

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(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor's signature:		<u>. </u>
Date:,,	_	
Jonathon		BATKIN
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor's signature:		
Date:,	_	
Jose-Luis		CARRIZO-MARTINEZ
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
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Date: 9th May 2014	,	****

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