PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
IAN HORSLEY	10/21/2016
TREVOR LINNEY	10/21/2016

RECEIVING PARTY DATA

Name:	BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY	
Street Address:	81 NEWGATE STREET	
City:	LONDON	
State/Country:	UNITED KINGDOM	
Postal Code: EC1A 7AJ		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15759340

CORRESPONDENCE DATA

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TTORNEY DOCKET NUMBER: 4359.171WOUS01	
NAME OF SUBMITTER:	KATHRYN A. BECKER
SIGNATURE:	/KATHRYN A. BECKER/
DATE SIGNED:	03/12/2018

Total Attachments: 2

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PATENT 504814839 REEL: 045174 FRAME: 0545

Attorney Docket No

ASSIGNMENT

WHEREAS, we, Ian, HORSLEY and Trevor, LINNEY of Ground Floor, Farada
Building, 1 knightrider Street, London EC4V 5BT United Kingdom have invented certain new
and useful improvements in METHOD AND APPARATUS FOR OPERATING A DIGITAL
SUBSCRIBER LINE ARRANGEMENT, for which an application for Letters Patent of the
United States is being made, and which may be identified in the United States Patent Office by
Application No, filed

WHEREAS, British Telecommunications public limited company ("Assignee"), a business entity organized and existing under the laws of the United Kingdom, and having its principal offices at 81 Newgate Street, London, EC1A 7AJ, is desirous of acquiring the entire right, title and interest in and to said invention, said application and in, to and under any and all Letters Patent to be obtained therefor,

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration to us in hand paid by said Assignee, the receipt of which is hereby acknowledged, we have sold, assigned and transferred, and by these presents do hereby sell, assign and transfer unto the said Assignee, its successors and assigns, our entire right, title and interest in and to said invention, said application, all applications claiming priority to said application including all divisions, continuations or renewals thereof, and the Letters Patent, both foreign and domestic, that may or shall issue, therefrom including all reissues or extensions of such patents including all of our rights under the International Convention, and we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to the above mentioned Assignee in accordance herewith.

We hereby authorize the above mentioned Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the date of execution and/or filing date and application number of said application when ascertained.

We further authorize said Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of said United States application and/or otherwise take advantage of the provisions of the International Convention.

Upon said consideration we do hereby covenant and agree with the said Assignee, its successors and assigns, that we will not execute in writing or do any act whatsoever conflicting with these presents, and that we or our executors or administrators will at any time upon request, without further or additional consideration, but at the expense of the said Assignee, its successors and assigns, execute such additional writings and do such additional acts as said Assignee, its successors and assigns, may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, or of any and all foreign countries on said invention, and in enforcing any rights occurring as a result of such applications

PATENT REEL: 045174 FRAME: 0546

Application No.

or patents, by giving testimony in any proceedings or transactions involving such applications or patents.

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seal as dated below

Date·	21/10/16	Jan Hy
		Ian, <u>HORSLEY</u>
Date'	21/10/16	Woung
		Trevor, <u>LINNEY</u>
Date ·		
Data		

RECORDED: 03/12/2018