

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CARSTEN MICHEL	05/23/2019
THOMAS HAAG	05/22/2019
HANS-JOERG KOLBE	05/22/2019
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<b>Postal Code:</b>	53113
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16479978
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<b>NAME OF SUBMITTER:</b>	ERIK R. SWANSON
<b>SIGNATURE:</b>	/Erik R. Swanson/
<b>DATE SIGNED:</b>	07/24/2019
<b>Total Attachments: 2</b>	
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**ASSIGNMENT**

I, Carsten Michel, residing at Danziger Allee 3a; 65239 Hochheim; GERMANY; and

I, Thomas Haag, residing at Limburger Strasse 24; 63110 Rodgau; GERMANY; and

I, Hans-Joerg Kolbe, residing at Hannah-Arendt-Weg 17; 64295 Darmstadt;  
GERMANY;

and each of us, if more than one person is identified above, have invented and have owned or do own a whole or partial right, title and interest in a certain invention entitled:

**METHOD FOR ENHANCED USE OF A SWITCHING FABRIC WITHIN A CENTRAL OFFICE POINT OF DELIVERY OF A BROADBAND ACCESS NETWORK OF A TELECOMMUNICATIONS NETWORK**

for which invention International Application No. PCT/EP2018/052971 was filed on February 6, 2018, designating the U.S. and

**WHEREAS,**

Deutsche Telekom AG

having an address at Friedrich-Ebert-Allee 140; 53113 Bonn; GERMANY,

hereinafter referred to as Assignee, was and/or is desirous of acquiring the entire domestic and foreign right, title, and interest in and under the invention described in the above patent application.

**NOW, THEREFORE,** for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/we have or hereby do assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns my/our full and exclusive rights in and to the invention in the U.S. and every foreign country and my/our entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on

the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and I/we do hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.

**UPON SAID CONSIDERATION**, I/we have conveyed or hereby do convey to the Assignee the right to make application in its own behalf for protection of the invention in the U.S. and countries foreign to the U.S. and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the U.S. application (or any other application on the invention) to gain priority with respect to other applications.

**I/WE DO HEREBY COVENANT** and agree with the Assignee that I/we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that I/we will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

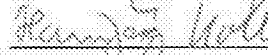
Date 5/23/2019

  
Carsten Michel, Inventor

Date 5/27/2019

  
Thomas Haag, Inventor

Date 5/22/2019

  
Hans-Joerg Kolbe, Inventor