PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STEFANO PARIS	09/11/2019
QIYANG ZHAO	09/11/2019
DANIELA LASELVA	09/12/2019
PETTERI KELA	08/12/2019

RECEIVING PARTY DATA

Name:	NOKIA TECHNOLOGIES OY	
Street Address:	KARAKAARI 7	
City:	ESPOO	
State/Country:	FINLAND	
Postal Code:	02610	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17634842

CORRESPONDENCE DATA

Fax Number: (202)470-6464

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Address Line 4: MIDDLETOWN, MARYLAND 21769

ATTORNEY DOCKET NUMBER:	0007-513001-317017-US-PCT	
NAME OF SUBMITTER:	R. EDWARD BRAKE	
SIGNATURE:	/R. Edward Brake/	
DATE SIGNED:	02/15/2022	

Total Attachments: 5

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PATENT REEL: 059015 FRAME: 0034

ASSIGNMENT - WORLDWIDE

ASS1	GN	OR	(S)
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Stefano Paris, Vanves, France
Qiyang Zhao, Antony, France
Daniela Laselva, Klarup, Denmark
Petteri Kela, Kaarina, Finland

ASSIGNEE

Nokia Technologies Oy

Karakaari 7, 02610 Espoo, Finland

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the ASSIGNOR(S) agree to assign and hereby assign, sell, transfer and set over to the ASSIGNEE and its successors, assigns and legal representatives, the entire right, title and interest, for United States of America and for all other countries in and to (1) the invention(s) identified by the following title or application number and filing date, and (2) any and all related inventions ("RELATED INVENTIONS" as defined below).

Title of Invention: CODED DUPLICATION FOR IMPROVED RELIABILITY OF TOII

Application Title: IMPROVED RELIABILITY OF MULTI-CONNECTIVITY

Application number: WO PCT/EP2019/071791 Filing date: 14 Aug 2019

I/we, the ASSIGNOR(S), hereby authorize and request a representative of the ASSIGNEE to insert the application title, application number and filing date when known/received, after the execution of this document. The ASSIGNOR(S) hereby acknowledge and agree that the ASSIGNEE shall have the right to claim priority, directly or through another patent application, to the application identified above in any and all related patent applications subsequently filed in all jurisdictions.

I/we the ASSIGNOR(S) hereby acknowledge and agree that RELATED INVENTIONS include all national, regional and international patent applications filed and to be filed in any and all jurisdictions, that claim priority to the invention(s) identified by the above title or application number and filing date, said patent applications include all divisionals, continuations, re-issues, reexaminations, and continuations-in-part applications, and RELATED INVENTIONS include all rights and privileges in said patent applications and under any and all letters patent that may be granted in the United States of America and in all other countries resulting from said patent applications.

The ASSIGNOR(S) authorize the ASSIGNEE to make applications for such protection in its own name and maintain such protection in any and all countries including the United States of

> 1/3 v-24Jun19

> > **PATENT** REEL: 059015 FRAME: 0035

America, and to invoke and claim for any application for patent or other form of protection for said invention(s), without further authorization from us, any and all benefits, including the rights of priority provided by any and all treaties, conventions, or agreements.

The ASSIGNOR(S) hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of the ASSIGNEE to apply for patent or other form of protection for said invention(s) and to claim the aforesaid benefit of the right of priority.

The ASSIGNOR(S) request that any and all patents for said invention(s) be issued to the ASSIGNEE, its/their successors, assigns and legal representatives, in the United States of America and in all other countries, or to such nominees as the ASSIGNEE may designate.

The ASSIGNOR(S) agree that, when requested, we shall, without charge to the ASSIGNEE sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

In witness whereof, each inve	entor/assignor please sign and	d date below:	
Inventor (First Middle LAST)	Signature	Date (YYYY-MM-DD)	
Stefano Paris		<u> 2019-09-11</u>	
Qiyang Zhao	<u> </u>	2019-09-11	
Daniela Laselva			
Petteri Kela			
This assignment should preferably be signed by the inventor(s) before (a) at least two witnesses who also sign here, or (b) a Notary Public if within the U.S.A.:			
Witness Name (First Middle LAST)	Signature	Date (YYYY-MM-DD)	
Marco MASO	Almarca Muss	2019-09-11	
Fued ABINADER	<u> </u>	2010 - 09 - 11	

America, and to invoke and claim for any application for patent or other form of protection for said invention(s), without further authorization from us, any and all benefits, including the rights of priority provided by any and all treaties, conventions, or agreements.

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In witness whereof, each inventor/assignor please sign and date below:			
Inventor (First Middle LAST)	Signature	Date (YYYY-MM-DD)	
Stefano Paris			
Qiyang Zhao			
Daniela Laseiva	<u> </u>	<u> 2019 - 22 - 42</u>	
Petteri Kela		:	
This assignment should preferably be signed by the inventor(s) before (a) at least two witnesses who also sign here, or (b) a Notary Public if within the U.S.A.:			
Witness Name (First Middle LAST)	Signature	Date (YYYY-MM-DD)	
<u> Farqu Sabacius .</u>		244 <u>-23-12-</u>	
<u> Rosenno Chicenado</u>		200102142	

America, and to invoke and claim for any application for patent or other form of protection for said invention(s), without further authorization from us, any and all benefits, including the rights of priority provided by any and all treaties, conventions, or agreements.

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In witness whereof, each inventor/assignor please sign and date below:			
Inventor (First Middle LAST)	Signature	Date (YYYY-MM-DD)	
Stefano Paris			
Oiyang Zhao			
Daniela Laselva	\		
Petteri Kela		2013 - 08 - 12	
This assignment should preferably be signed by the inventor(s) before (a) at least two witnesses who also sign here, or (b) a Notary Public if within the U.S.A.:			
Witness Name (First Middle LAST)	Signature	Date (YYYY-MM-DD)	
<u> 4m 14-4-a Cidares </u>	. <u> </u>	<u> 2010-03-12</u>	
<u> Jame Markankan</u>		2.013 - 06 - 32.	
	<u> </u>		

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7	he ASSIGNEE accepts this assignment:	
Name	Claire Andrews	Signature 4 Aus
Title	Head of Technology Area, Patenting	Date (YYYY-MM-3D) 0CT 7 & 2019
Name	Louis Diep Director, Filing & Prosecution Admin	Signature

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