PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEROEN WIGARD	02/11/2019
ISTVÁN ZSOLT KOVÁCS	02/11/2019
MADS LAURIDSEN	02/11/2019
KARRI MARKUS RANTA-AHO	02/12/2019

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17309732

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ATTORNEY DOCKET NUMBER:	0007-458001-315329-US-PCT	
NAME OF SUBMITTER:	R. EDWARD BRAKE	
SIGNATURE:	/R. Edward Brake/	
DATE SIGNED:	06/18/2021	

Total Attachments: 4

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PATENT 506723788 REEL: 056588 FRAME: 0684

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PATENT REEL: 056588 FRAME: 0685

ASSIGNMENT - WORLDWIDE

ASSIGN	NOR(S)
	Jeroen Wigard, Klarup, Denmark
	Istvan Zsolt Kovacs, Aalborg, Denmark
	Mads Lauridsen, Gistrup, Denmark
	Karri Markus Ranta-Aho, Espoo, Finland

ASSIGNEE

Nokia Technologies Oy Karaportti 3, 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 filling date, and (2) any and all related inventions ("RELATED INVENTIONS" as defined below).

Title: LOCALIZATION ESTIMATION FOR NON-TERRESTRIAL NETWORKS

Application number: WO PCT/EP2019/053014 Filing date: 2019-02-07 (YYYY-MM-DD)

I/we, the ASSIGNOR(S), hereby authorize and request a representative of the ASSIGNEE to insert the 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, re-examinations, 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 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.

v-14Dec18

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 inventor/assignor please sign and date below:		
Inventor (First Middle LAST)	Signature	Date (YYYY-MM-DD)
Jeroen Wigard	1 Can	7019-02-01
Istvan Zsolt Kovacs	Mar lear 1	<u> 2014 - 02 - 16</u>
Mads Lauridsen	Made C	3019-02-11
Karri Markus Ranta-Aho		
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)
TROELS KOLDING		2019-02-11
MUNO C PRATAS		2019-02-11

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 inventor/assignor please sign and date below:		
Inventor (First Middle LAST)	Signature	Date (YYYY-MM-DD)
Jeroen Wigard		
Istvan Zsolt Kovacs		Martin Control of the
Mads Lauridsen		
Karri Markus Ranta-Aho	<u></u>	2019-02-12
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) Jari Olavi Lindholm	Signature / //	Date (YYYY-MM-DD) 2017 - 02 - 12
Timo Wathle	<u> </u>	<u> 2079-02-12</u>

NC315329-WO-PCT

Title	he ASSIGNEE accepts this assignment: Jarmo J. Kemppainen Senior IPR Specialist	Signature Date (YYYY-MM-DD) FEB 2 8 2019
Name	Yan Wang Manager, Patenting	Signature FER 2 8 2019

v-14Dec18