PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7266967

NATURE OF CONVEYANCE.	SSIGNMENT
I	ment to correct the RECEIVING PARTY DATA ed on Reel 051858 Frame 0204. Assignor(s) hereby IGNMENT.

CONVEYING PARTY DATA

Name	Execution Date
JUHA HALLIVUORI	04/16/2019

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16685438

CORRESPONDENCE DATA

Fax Number: (704)444-1111

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.

Phone: 7044441000

Email: usptomail@alston.com
Correspondent Name: ALSTON & BIRD LLP

Address Line 1: BANK OF AMERICA PLAZA

Address Line 2: 101 SOUTH TRYON STREET, SUITE 4000
Address Line 4: CHARLOTTE, NORTH CAROLINA 28280-4000

ATTORNEY DOCKET NUMBER:	042933/539956
NAME OF SUBMITTER:	GUY R. GOSNELL
SIGNATURE:	/Guy R. Gosnell/
DATE SIGNED:	04/07/2022

Total Attachments: 3

source=539956_CorrectiveAssignment#page1.tif source=539956_CorrectiveAssignment#page2.tif source=539956_CorrectiveAssignment#page3.tif

PATENT 507220117 REEL: 059622 FRAME: 0330

505923737 02/19/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5970455

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JUHA HALLIVUORI	04/16/2019

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16685438

CORRESPONDENCE DATA

Fax Number: (704)444-1111

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.

7044441000 Phone:

Email: usptomail@alston.com **Correspondent Name:** ALSTON & BIRD LLP

Address Line 1: BANK OF AMERICA PLAZA, 101 SOUTH TRYON STREET

Address Line 2: **SUITE 4000**

Address Line 4: CHARLOTTE, NORTH CAROLINA 28280-4000

ATTORNEY DOCKET NUMBER:	042933/539956
NAME OF SUBMITTER:	GUY R. GOSNELL
SIGNATURE:	/Guy R. Gosnell/
DATE SIGNED:	02/19/2020

Total Attachments: 2

source=539956_Assignment#page1.tif source=539956 Assignment#page2.tif

> **PATENT** REEL: 059622 FRAME: 0331 505923737

ASSIGNMENT - WORLDWIDE

Juha Hallivuori, Tampere, Finland

ASSIGNEE

Nokia Solutions and Networks 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 filing date, and (2) any and all related inventions ("RELATED INVENTIONS" as defined below).

Title: A MULTI-BAND ANTENNA AND COMPONENTS OF MULTI-BAND ANTENNA

Application number: EP <u>18211918.0</u> Filing date: <u>2018-12-12</u>

(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.

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

1 / 2 v-14Dec18

PATENT REEL: 059622 FRAME: 0332

NC314890-EP-EPA

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)	iignature	Date (YYYY-MM-DD)
Juha Hallivuori	<u> </u>	2019-04-16
This assignment should preferably be s who also sign here, or (b) a Notary Publ		ore (a) at least two witnesses
Witness Name (First Middle LAST) S	ilgnature DU 72~	Date (YYYY-MM-DD)
	M	7977 7019 - 04 - 14
<u> Maust Nääkäses –</u>		**************************************
The ASSIGNEE accepts this assig		
The ASSIGNEE accepts this assig		
The ASSIGNEE accepts this assig	gnment: Signature	APR 7 & 7819
The ASSIGNEE accepts this assig	gnment: Signature	APR 2 4 2019

2/2

v-14Dec18