

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT8172044

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT						
NATURE OF CONVEYANCE:	Corrective Assignment to correct the FIRST NAME OF THE FIRST INVENTOR previously recorded on Reel 064188 Frame 0384. Assignor(s) hereby confirms the FIRST NAME OF THE FIRST INVENTOR IS DMITRY.						
CONVEYING PARTY DATA							
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>DMITRY KOZLOV</td><td>07/15/2019</td></tr><tr><td>SENAD BULJA</td><td>07/15/2019</td></tr></tbody></table>	Name	Execution Date	DMITRY KOZLOV	07/15/2019	SENAD BULJA	07/15/2019	
Name	Execution Date						
DMITRY KOZLOV	07/15/2019						
SENAD BULJA	07/15/2019						
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							
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>16910299</td></tr></tbody></table>	Property Type	Number	Application Number:	16910299			
Property Type	Number						
Application Number:	16910299						
CORRESPONDENCE DATA							
Fax Number:	(704)444-1111						
<i>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.</i>							
Phone:	7044441000						
Email:	usptomail@alston.com						
Correspondent Name:	ALSTON & BIRD LLP						
Address Line 1:	1120 SOUTH TRYON STREET						
Address Line 2:	SUITE 300						
Address Line 4:	CHARLOTTE, NORTH CAROLINA 28203-6818						
ATTORNEY DOCKET NUMBER:	042933/549915						
NAME OF SUBMITTER:	TORREY L. WYATT						
SIGNATURE:	/Torrey L. Wyatt/						
DATE SIGNED:	09/18/2023						
Total Attachments: 5							
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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT8046028

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
<u>DMITRY</u> Name	Execution Date
DIMITRY KOZLOV	07/15/2019
SENAD BULJA	07/15/2019
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:	16910299
CORRESPONDENCE DATA	
Fax Number:	(704)444-1111
<i>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.</i>	
Phone:	7044441000
Email:	usptomail@alston.com
Correspondent Name:	ALSTON & BIRD LLP
Address Line 1:	1120 SOUTH TRYON STREET
Address Line 2:	SUITE 300
Address Line 4:	CHARLOTTE, NORTH CAROLINA 28203-6818
ATTORNEY DOCKET NUMBER:	042933/549915
NAME OF SUBMITTER:	TORREY L. WYATT
SIGNATURE:	/Torrey L. Wyatt/
DATE SIGNED:	07/07/2023
Total Attachments: 3	
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source=549915_Assignment#page3.tif	

ASSIGNMENT - WORLDWIDE

ASSIGNOR(S)

Dmitry Kozlov, Dublin, Ireland**Senad Bulja**, Dublin, Ireland**Jack Millist**, Carcassonne, France

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: **AN ANTENNA HAVING CONTROLLED DIRECTIVITY**Application number: **EP 19182123.0** Filing date: **2019-06-25**
(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 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)
<u>Dmitry Kozlov</u>	<u>[Signature]</u>	<u>2019-07-15</u>
<u>Senad Bulja</u>	<u>[Signature]</u>	<u>2019-07-15</u>
<u>Jack Millist</u>	_____	_____

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>RAY KEARNEY</u>	<u>[Signature]</u>	<u>2019-07-15</u>
<u>PAWEŁ RULIKOWSKI</u>	<u>[Signature]</u>	<u>2019-07-15</u>

The ASSIGNEE accepts this assignment:

Name _____	Signature _____
Title _____	Date (YYYY-MM-DD) _____
Name _____	Signature _____
Title _____	Date (YYYY-MM-DD) _____

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)
<u>Dmitry Kozlov</u>	_____	_____
<u>Senad Bulja</u>	_____	_____
<u>Jack Millist</u>	_____	_____

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)
_____	_____	_____
_____	_____	_____

The ASSIGNEE accepts this assignment:

Name <u>Per Möller</u>	Signature <u><i>Per Möller</i></u> <small>Per Möller [Sep 8, 2021 16:28 GMT+3]</small>
Title <u>Authorized Signatory</u>	Date (YYYY-MM-DD) <u>Sep 8, 2021</u>
Name <u>Xin Liu</u>	Signature <u><i>Xin Liu</i></u> <small>Xin Liu [Sep 11, 2021 15:39 GMT+8]</small>
Title <u>Authorized Signatory</u>	Date (YYYY-MM-DD) <u>Sep 11, 2021</u>