

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7141326

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JANNE TAPIO ALI-TOLPPA	08/19/2021
JURGEN GOERGE	08/20/2021
ANATOLY ANDRIANOV	08/19/2021
JING PING	08/20/2021
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State/Country:	FINLAND
Postal Code:	02610
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17431403
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SIGNATURE:	/Guy R. Gosnell/
DATE SIGNED:	01/26/2022
Total Attachments: 2	
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source=563154_Assignment#page2.tif	

ASSIGNMENT - WORLDWIDE

ASSIGNOR(S)

Name	City	Country
Janne Tapio Ali-Tolppa	Pirkkala	Finland
Jürgen Goerge	Neuried	Germany
Anatoly Andrianov	Schaumburg, Illinois	United States of America
Jing Ping	Chengdu	China

(Full legal name, city and country of each inventor)

ASSIGNEE

Nokia Solutions and Networks 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).

Application Title: APPARATUS, METHOD, AND COMPUTER PROGRAM

Application number: WO PCT/CN2019/075401

Filing date: 2019-02-18
 (YYYY-MM-DD)

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, 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.

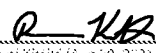
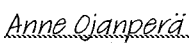
The ASSIGNOR(S) agree that, when requested, we shall, without charge to the ASSIGNEE sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

The ASSIGNOR(S) and ASSIGNEE agree that this assignment may be executed by either handwritten signatures, including the exchange of scanned representations of handwritten signatures, or e-signatures. By using e-signature to sign this assignment, the ASSIGNOR(S) and ASSIGNEE acknowledge that execution in this manner creates a binding contract between the ASSIGNOR(S) and ASSIGNEE.

Each inventor/assignor please sign and date below:

Inventor (First Middle Last)	Signature	Date
Janne Tapio Ali-Tolppa	 Janne Ali-Tolppa (Aug 19, 2021 16:27 GMT+3)	Aug 19, 2021
Jürgen Goerge	 Jürgen Goerge (Aug 20, 2021 08:03 GMT+3)	Aug 20, 2021
Anatoly Andrianov	 Anatoly Andrianov (Aug 20, 2021 08:03 GMT+3)	Aug 19, 2021
Jing Ping	 Jing Ping (Aug 20, 2021 08:54 GMT+8)	Aug 20, 2021

The ASSIGNEE accepts this assignment:

Name: Rauni Kittilä	Signature  Rauni Kittilä (Aug 20, 2021 08:27 GMT+3)
Title: Authorized Signatory	Date Aug 20, 2021
Name: Anne Ojanperä	Signature  Anne Ojanperä (Sep 2, 2021 17:48 GMT+3)
Title: Authorized Signatory	Date Sep 2, 2021