

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHUNLI WU	04/15/2020
BENOIST SEBIRE	04/14/2020
SAMULI TURPINEN	04/14/2020
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16758263
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DATE SIGNED:	10/14/2022
Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif	

ASSIGNMENT - WORLDWIDE

ASSIGNOR(S)

Name	City	Country
Chunli Wu	Beijing	China
Benoist Sebire	Tokyo	Japan
Samuli Turtinen	Ii	Finland

ASSIGNEE

Nokia Shanghai Bell Co., Ltd.

388 Ningqiao Road, Shanghai, 201206, People's Republic of China

NOKIA SOLUTIONS AND NETWORKS OY

Karakaari 7 (as of 1 July 2019, formerly 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).

Application Title: METHOD, APPARATUS, COMPUTER PROGRAM PRODUCT AND COMPUTER PROGRAM

Application number: WO PCT/CN2017/108410

Filing date: 2017-10-30
(YYYY-MM-DD)

I/we, the ASSIGNOR(S), hereby authorize and request a representative of the ASSIGNEES 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 ASSIGNEES 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
Chunli Wu	 Chunli Wu (Apr 15, 2020)	Apr 15, 2020
Benoist Sebire	 Benoist Sebire (Apr 14, 2020)	Apr 14, 2020
Samuli Turtinen	 Samuli Turtinen (Apr 14, 2020)	Apr 14, 2020

The ASSIGNEE accepts this assignment:

Nokia Shanghai Bell Co., Ltd

Name: Edward ZHANG

Title: EDGM-Strategy & Innovation
of Nokia Shanghai Bell Co., Ltd.

Signature *Edward Zhang*

Date Apr 22, 2020

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Name: Per Möller

Title: Authorized Signatory

Signature *Per Möller*
Per Möller (Apr 15, 2020)

Date Apr 15, 2020

Name: Ari Aarnio

Title: Authorized Signatory

Signature *Ari Aarnio*
Ari Aarnio (Apr 15, 2020)

Date Apr 15, 2020