506498269 02/10/2021

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
HOOMAN BIDGOLI	01/07/2020
JAYANT KOTALWAR	12/02/2020

## **RECEIVING PARTY DATA**

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## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16684941

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	316486-US-NP
NAME OF SUBMITTER:	DIANE V. LANE
SIGNATURE:	/Diane V. Lane/
DATE SIGNED:	02/10/2021

## **Total Attachments: 3**

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PATENT 506498269 REEL: 055215 FRAME: 0699

#### **ASSIGNMENT - WORLDWIDE**

### ASSIGNOR(S)

Name	City	Country
Hooman Bidgoli	Ontario	Canada
Jayant Kotalwar	Cupertino, California	United States of America

### **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: MULTICAST SUPPORT** 

Application number: US <u>16/684941</u> Filing date: <u>2019-11-15</u>

(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

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PATENT REEL: 055215 FRAME: 0700 the ASSIGNEE to apply by patent or other form of projection for said invention () and to count 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.

Inventor (First Middle LAST)	Signature	Date (YYYY-MM-CD)
Hooman Bidgoli	4444	2420
Jayant Kotalwar	494	
		continuis) hafren (a) at laast (
This assignment should pre vitnesses who also sign here, or (b)	ferably be signed by the inv a Notary Public if within the	ventor(s) before (a) at least ( U.S.A.:
	ferably be signed by the in-	ventor(s) before (a) at least t

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***************************************							

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.

entor/assignor please sign and dat	e below:				
Signature	Date (YYYY-MM-DD)				
JAYANT KOTALWAR	Dec 2, 2020				
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.:					
Signature	Date (YYYY-MM-DD)				
	Signature  TAYANT KOTAL WAR  Perably be signed by the inventor a Notary Public if within the U.S.A.				

The ASSIGNEE accepts this assign	nment:
Name Huw Edwards	Signature (1997)
Title Authorized Signatory	Date (YYYY-MM-DD) Nov 11, 2020
<sub>Name</sub> Anne Ojanperä	Anna Qjanperä Signature Anna Apapara (Adv. 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2000 11, 2
Title Authorized Signatory	Date (YYYY-MM-DD) Nov 11, 2020
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RECORDED: 02/10/2021

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