

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT6402227

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>GINO DION</td><td>08/06/2019</td></tr><tr><td>RANDALL B. SHARPE</td><td>09/19/2019</td></tr></tbody></table>	Name	Execution Date	GINO DION	08/06/2019	RANDALL B. SHARPE	09/19/2019	
Name	Execution Date						
GINO DION	08/06/2019						
RANDALL B. SHARPE	09/19/2019						
RECEIVING PARTY DATA							
Name:	NOKIA TECHNOLOGIES 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>17055637</td></tr></tbody></table>	Property Type	Number	Application Number:	17055637			
Property Type	Number						
Application Number:	17055637						
CORRESPONDENCE DATA							
Fax Number:							
<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>							
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Email:	aokrentowich@hspatent.com						
Correspondent Name:	HARRINGTON & SMITH, ATTORNEYS AT LAW, LLC						
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ATTORNEY DOCKET NUMBER:	800.2377.U1(US)						
NAME OF SUBMITTER:	MARK F. HARRINGTON						
SIGNATURE:	/Mark F. Harrington/						
DATE SIGNED:	11/16/2020						
Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif							

ASSIGNMENT - WORLDWIDE

ASSIGNOR(S)

Gino Dion, New-Brunswick, Canada

Randall B. Sharpe, Chapel Hill, North Carolina, USA

ASSIGNEE

Nokia Technologies 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).

Title: **FACILITATING RESIDENTIAL WIRELESS ROAMING VIA VPN
CONNECTIVITY OVER PUBLIC SERVICE PROVIDER NETWORKS**

Application number: **WO PCT/US18/33159** Filing date: **2018-05-17**
(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)
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<u>Gino Dion</u>		
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<u>Randall B. Sharpe</u>	<u>[Signature]</u>	<u>2019-09-19</u>
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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)
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<u>Anthony D. Johnson</u>	<u>[Signature]</u>	<u>2019-09-19</u>
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<u>Bryan Daniel Ragan</u>	<u>[Signature]</u>	<u>2019-09-19</u>
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The ASSIGNEE accepts this assignment:

Name	Signature
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Title	Date (YYYY-MM-DD)
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Name <u>Louis Diep</u>	Signature
------------------------	-----------


Title <u>Director, Filing & Prosecution Admin</u>	Date (YYYY-MM-DD)
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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.

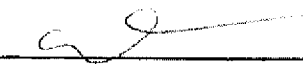
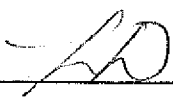
In witness whereof, each inventor/assignor please sign and date below:

Inventor (First Middle LAST)	Signature	Date (YYYY-MM-DD)
<u>Gino Dion</u>		<u>August 6th 2019</u>
<u>Randall B. Sharpe</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>Taylor Skye Burke-Dion</u>	<u>Taylor Burke-Dion</u>	<u>2019-11-18</u>
<u>Kathleen D. Burke</u>	<u>Kathleen Burke</u>	<u>2019-11-18</u>

The ASSIGNEE accepts this assignment:

Name <u>Yan Wang</u>	Signature 
Title <u>Manager, Patenting</u>	Date (YYYY-MM-DD) <u>DEC 19 2019</u>
Name <u>Louis Diep</u>	Signature 
Title <u>Director, Filing & Prosecution Admin</u>	Date (YYYY-MM-DD) <u>19 DEC 2019</u>