

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Lauri Aarno Olavi Tarkkala</td> <td>02/05/2013</td> </tr> <tr> <td>Thomas Piekenbrock</td> <td>12/12/2012</td> </tr> <tr> <td>Jari Karjala</td> <td>12/17/2012</td> </tr> </tbody> </table>		Name	Execution Date	Lauri Aarno Olavi Tarkkala	02/05/2013	Thomas Piekenbrock	12/12/2012	Jari Karjala	12/17/2012
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Lauri Aarno Olavi Tarkkala	02/05/2013								
Thomas Piekenbrock	12/12/2012								
Jari Karjala	12/17/2012								
RECEIVING PARTY DATA									
Name:	Nokia Corporation								
Street Address:	Keilalahdentie 4								
City:	Espoo								
State/Country:	FINLAND								
Postal Code:	FIN-02150								
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>13665537</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13665537				
Property Type	Number								
Application Number:	13665537								
CORRESPONDENCE DATA									
Fax Number:									
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	703-519-9951								
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Correspondent Name:	Ditthavong Mori & Steiner, P.C.								
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Address Line 4:	Alexandria, VIRGINIA 22314								
ATTORNEY DOCKET NUMBER:	P6565US00								
NAME OF SUBMITTER:	Phouphanomketh Ditthavong								
	This document serves as an Oath/Declaration (37 CFR 1.63).								

OP \$40.00 13665537

Total Attachments: 6

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Attorney Docket No.: P6565US00

Patent

**COMBINED DECLARATION AND ASSIGNMENT
FOR PATENT APPLICATION**

Title of Invention: METHOD AND APPARATUS FOR PROVIDING LOCATION-BASED SERVICES USING LOCATION-BASED TRACES

As the below named inventor, I hereby declare that this declaration is directed to:

- The attached application, or
 United States application or PCT international application filed on October 31, 2012 and assigned Serial No. 13/665,537

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment made on ____ (if applicable).

I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, I the undersigned hereby sell, assign, and transfer to Nokia Corporation, a corporation of Keilalahdentie 4, Espoo, FIN-02150, Finland, having a principal place of business at Finland ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the above-identified application for the United States patent, which:

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all assignments and powers of attorney; communicate to said Assignee, its successors,

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assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

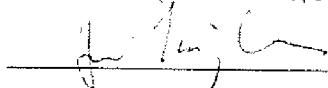
covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Full Name of First or Sole Inventor (Given name, FAMILY NAME):

Jari KARJALA

Inventor's Signature



Date

17 DEC 2019

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Use an additional form for each inventor.

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and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all assignments and powers of attorney; communicate to said Assignee, its successors,

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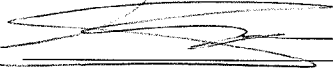
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Full Name of First or Sole Inventor (Given name, FAMILY NAME):

Lauri Aarno Olavi TARKKALA

Inventor's Signature



Date

2013-02-05

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

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Full Name of First or Sole Inventor (Given name, FAMILY NAME): Thomas PIEKENBROCK

Inventor's Signature  Date 12.12.2012

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

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