

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KARI J. LEPPANEN	11/21/2012
PHILIP GINZBOORG	11/22/2012
JANNE KULMALA	11/26/2012
ANTTI LAINE	11/23/2012
MARKO HANNIKAINEN	11/26/2012
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<b>State/Country:</b>	FINLAND
<b>Postal Code:</b>	02150
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14421881
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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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<b>ATTORNEY DOCKET NUMBER:</b>	79474US INV TO NCORP
<b>NAME OF SUBMITTER:</b>	SANDY FONG-HOU
<b>SIGNATURE:</b>	/Sandy Fong-Hou/
<b>DATE SIGNED:</b>	07/06/2015
<b>Total Attachments: 7</b>	
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H&S Docket No.: 800.1054.U1(US)  
Nokia Docket No.: NC79474WO

For ☒ U.S. and/or ☒ Foreign Rights  
For ☒ U.S. Application or ☐ U.S. Patent

### ASSIGNMENT OF INVENTION

In accordance with an agreement between ASSIGNEE and ASSIGNOR, if one name be listed below, or ASSIGNORS, if more than one name be listed below, and for good and valuable consideration,

#### (1) ASSIGNOR (inventor):

FULL NAME OF INVENTOR :	LAST NAME	FIRST NAME	MIDDLE NAME
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FULL NAME OF INVENTOR :	LAST NAME Hannikainen	FIRST NAME Marko	MIDDLE NAME
RESIDENCE & CITIZENSHIP:	CITY & STATE OR COUNTRY Pirkkala, Finland	CITIZENSHIP FI	

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hereby sell(s), assign(s) and transfer(s) to

**ASSIGNEE:**

**Nokia Corporation**  
Keilalahdentie 4  
02150 Espoo  
Finland

and the successors, assigns and legal representatives of the ASSIGNEE, the entire right, title and interest for the United States and its territorial possessions, and in all foreign countries, including all rights to claim priority, to any invention and all improvements which are disclosed in the invention entitled:

which is found in:

- ☐ the patent application executed on the same date herewith,
- ☒ was described and claimed in PCT International Application Number PCT/IB2012/054772 filed September 13, 2012 ,
- ☒ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention, the above application, or any continuation, division, renewal, or substitute thereof, and as to Letters Patent any reissue or re-examination thereof;

and any prior U.S. provisional patent application(s) (if any) including the following:

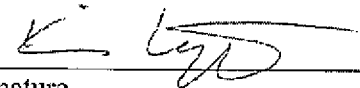
Application No.: \_\_\_\_\_

Filing Date: \_\_\_\_\_.

ASSIGNOR(S) hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR(S) further covenant(s) that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR(S) and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

(1) Assignor Name: Kari J. Leppanen

By:  21 NOV 2012  
Signature Date

Witnessed:

(1)  21 NOV 2012  
Witness Name: ENRICO HENRIK RAUTAVA Date

(2) Assignor Name: Philip Ginzboorg

By: Philip Ginzboorg  
Signature


2012-11-22  
Date

Witnessed:

(1) Michael Andersson  
Witness Name: Michael Andersson


2012-11-22  
Date

(3) Assignor Name: Janne Kulmala

By:   
Signature


26.11.2012  
Date

**Witnessed:**

(1)   
Witness Name: Mikko Vataja

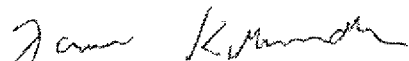
26.11.2012  
Date

(4) Assignor Name: Antti Laine

By:   
Signature

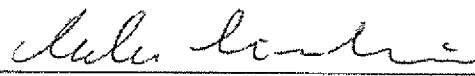
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Witnessed:

(1)   
Witness Name: Janne Kulmala

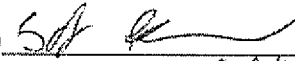
23.11.2012  
Date

(5) Assignor Name: Marko Hannikainen

By:   
Signature

26.11.2012  
Date

Witnessed:

(1)   
Witness Name: SAKU RAUTIAINEN

25.11.2012  
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