

## 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>                   |
| LEO KÄRKKÄINEN  | 01/10/2014                              |
| MIKKO UUSITALO  | 01/13/2014                              |
| AKOS VETEK  | 01/10/2014                              |
| <b>RECEIVING PARTY DATA</b>   |   |
| <b>Name:</b>  | NOKIA CORPORATION                       |
| <b>Street Address:</b>  | KEILALAHDENTIE 4                        |
| <b>City:</b>  | ESPOO                                   |
| <b>State/Country:</b>   | FINLAND                                 |
| <b>Postal Code:</b>   | 02150                                   |
| <b>PROPERTY NUMBERS Total: 1</b>  |   |
| <b>Property Type</b>  | <b>Number</b>                           |
| Application Number:   | 15106789                                |
| <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> |   |
| <b>Email:</b>   | Sandy.fong-Hou@nokia.com                |
| <b>Correspondent Name:</b>  | NOKIA USA INC. ATTN: INTELLECTUAL PROPE |
| <b>Address Line 1:</b>  | 200 SOUTH MATHILDA AVE                  |
| <b>Address Line 4:</b>  | SUNNYVALE, CALIFORNIA 94086             |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 83424US INV TO NCORP                    |
| <b>NAME OF SUBMITTER:</b>   | SANDY FONG-HOU                          |
| <b>SIGNATURE:</b>   | /Sandy Fong-Hou/                        |
| <b>DATE SIGNED:</b>   | 06/20/2016                              |
| <b>Total Attachments: 3</b>   |   |
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| source=83424_ExecutedAssign#page2.tif   |   |
| source=83424_ExecutedAssign#page3.tif   |   |

**ASSIGNMENT - WORLDWIDE**

I/we, (The ASSIGNOR(S)):

**Leo Karkkainen  
Mikko Uusitalo  
Akos Vetek**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, hereby assign to (hereafter referred to as The ASSIGNEE):

Nokia Corporation  
Keilalahdentie 4  
FI-02150 Espoo  
Finland.

An invention entitled (invention Title):

**DISPLAY OF A VISUAL REPRESENTATION OF A VIEW**

The PATENT RIGHTS referred to in this agreement are:

a national Patent Application No. filed on \_\_\_\_\_  
 European Patent Application No. filed on \_\_\_\_\_  
 PCT application No. PCT/FI2014/050018 filed on January 10, 2014.

for this invention, executed by the ASSIGNOR(S)

U.S. Patent Application Serial No. 15/106789, filed June 20, 2016  
 U.S. Patent No. \_\_\_\_\_, issued \_\_\_\_\_

The PATENT RIGHTS assigned under this agreement are:

U.S. Patent rights  
 worldwide Patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any Patent Application identified above.

The ASSIGNOR(S) do hereby assign the following to each ASSIGNEE; their successors and assigns:

the full and exclusive right to the invention;

an equal interest in and to the entire right, title and interest in and to the PATENT RIGHTS in the invention, all continuations, continuations-in-part, divisionals, re-issues, and re-examination patents and patent applications; and

the right to claim priority under 35 U.S.C. § 119, based on any earlier foreign applications for this invention.

As to all U.S. Patent Applications assigned under this Agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE(S) as the ASSIGNEE(S) of an equal interest in the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE(S), their successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE(S), or their representatives, any facts known to the ASSIGNOR(S) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE(S), make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE(S), their successors and assigns, to obtain and enforced proper protection for said invention.

Further, I/We authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);



NC83424

Each Inventor: Please sign and date below:

\_\_\_\_\_  
[Leo Karkkainen]

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness Signature  
Printed Name \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
[Mikko Uusitalo]

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness Signature  
Printed Name EMILIO HEURIK RANTALA

\_\_\_\_\_  
Date

\_\_\_\_\_  
[Akos Vetek]

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness Signature  
Printed Name \_\_\_\_\_

\_\_\_\_\_  
Date

13.1.2014

13.1.2014