

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
LEO M. KARKKAINEN	01/02/2015
AKOS VETEK	01/02/2015
MIKKO A. UUSITALO	02/01/2015
MIKKO J. HONKALA	12/01/2014
RECEIVING PARTY DATA	
Name:	NOKIA CORPORATION
Street Address:	KARAKAARI 7
City:	ESPOO
State/Country:	FINLAND
Postal Code:	02610
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14578218
CORRESPONDENCE DATA	
Fax Number:	(704)444-1111
<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>	
Phone:	704-444-1000
Email:	usptomail@alston.com
Correspondent Name:	NOKIA CORPORATION AND ALSTON & BIRD LLP
Address Line 1:	BANK OF AMERICA PLAZA, 101 SOUTH TRYON S
Address Line 2:	SUITE 4000
Address Line 4:	CHARLOTTE, NORTH CAROLINA 28280-4000
ATTORNEY DOCKET NUMBER:	042933/455300
NAME OF SUBMITTER:	GUY R. GOSNELL
SIGNATURE:	/Guy R. Gosnell/
DATE SIGNED:	10/10/2016
Total Attachments: 5	
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ASSIGNMENT

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

Leo M. Karkkainen
Akos Vetek
Mikko A. Uusitalo
Mikko J. Honkala

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
Karakaari 7
02610 Espoo
Finland

An invention entitled (invention Title):

METHOD AND APPARATUS FOR PROVIDING VIRTUAL AUDIO REPRODUCTION

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. filed on

for this invention, executed by the ASSIGNOR(S)

U.S. Patent Application Serial No. 14/578218, filed December 19, 2014
-- 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 full and exclusive right to the invention;

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

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.

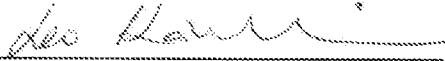
As to all U.S. Patent Applications assigned under this Agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE(S) as the ASSIGNEE(S) of an equal interest in the entire right, title and interest, for the sole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

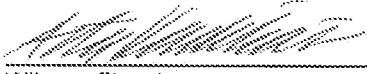
Each Inventor: Please sign and date below:

NC88442



[Leo M. Karkkainen]

JAN. 2, 2015
Date



Witness Signature
Printed Name ASTA VÄYKKÄINEN

JAN. 2, 2015
Date

NC86442

Viktor Akos
[Akos Vetek]

JAN 2. 2015
Date

[Signature]
Witness Signature
Printed Name RITI MULLER

JAN 2. 2015
Date

NC86442

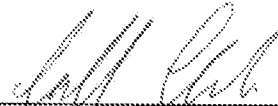
Mikko A. Uusitalo
[Mikko A. Uusitalo]

7.1.2015
Date

Petteri Luoma
Witness Signature
Printed Name PETTERI LUOMA

7.1.2015
Date

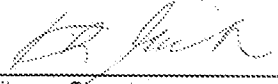
NC66442



[Mikko J. Honkala]

12.1.2014

Date



Witness Signature
Printed Name PITI KULLER

12.1.2014

Date