504162696 01/04/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NOKIA CORPORATION	01/16/2015

RECEIVING PARTY DATA

Name:	NOKIA TECHNOLOGIES OY	
Street Address:	Address: KARAPORTTI 3	
City:	ESPOO	
State/Country:	ate/Country: FINLAND	
Postal Code: FI-02610		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14936012

CORRESPONDENCE DATA

Fax Number: (704)444-1111

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.

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Email: patent-mail@alston.com

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Address Line 2: ALSTON & BIRD LLP

Address Line 4: CHARLOTTE, NORTH CAROLINA 28280-4000

ATTORNEY DOCKET NUMBER:	042933/467831
NAME OF SUBMITTER:	GUY R. GOSNELL
SIGNATURE:	/Guy R. Gosnell/
DATE SIGNED:	01/04/2017

Total Attachments: 2

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PATENT 504162696 REEL: 040840 FRAME: 0073

PATENT ASSIGNMENT

THIS Assignment is effective as of 31 December 2014 between

Assignor NOKIA CORPORATION of Karaportti 3, FI – 02610 Espoo, Finland, a corporation organized under the laws of Finland (hereinafter "Nokia Corporation") and Assignee NOKIA TECHNOLOGIES OY of Karaportti 3, FI – 02610 Espoo, Finland, a corporation organized under the laws of Finland (hereinafter "Nokia Technologies")

WHEREAS, Nokia Corporation is the owner of certain patents and patent applications, as more particularly described in <u>Attachment 1</u> hereto (hereinafter "the Patents"), incorporated herein by reference;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and in accordance with that certain Business Purchase Agreement between Nokia Corporation and Nokia Technologies having an effective date of 31 December 2014 (hereinafter "Agreement"):

Nokia Corporation sells, assigns, transfers and conveys to Nokia Technologies, and its successors and assigns, all right, title, and interest in and to each of the Patents and patent applications listed in <u>Attachment 1</u> hereto and all continuations, divisions, and reissues arising from or related to the Patents.

This sale, assignment, transfer, and conveyance to Nokia Technologies, and its successors and assigns, is made subject to certain retained rights in favor of Nokia Corporation for the Patents and patent applications listed in <a href="https://doi.org/10.1007/journal

IN WITNESS WHEREOF, the parties have caused their respective corporate names to be affixed hereto and this instrument to be signed by their duly authorized officers as of the day and year written below:

NOKL	A CORPORATION	
By: Name: Title:	Esa Niinimäki Authorized signatory	Name: Anna Oksola Title: Legal Consel Date: 15 January 2015
Date:	TECHNOLOGIES BY	Dute 16 January 2007
By:		A CONTRACTOR OF THE PARTY OF TH
Name:		Name Sami USKOK
Title: Date:	jyri Cassi Vice President, Legal & IP 16 JOHNS CHING GOVES	Date: 16 January 2015

PATENT REEL: 035468 FEAME: 0460

REEL: 040840 FRAME: 0074

Attachment 1

73587-US-NP	United States Of America	05 Aug 2011	13/204175		
73584-US-NP	United States Of America	21 Oct 2010	12/909049	02 Apr 2013	8409866
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RECORDED: 04/22/2015 RECORDED: 01/04/2017 PATENT REEL: 035468 FEAME: 0461 REEL: 040840 FRAME: 0075