503614455 12/16/2015

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ				
		Name	Execution	Date	
NOKIA CORPORATION	١		01/16/2015		
RECEIVING PARTY D	ΑΤΑ				
Name:	NOKIA TECHNOLOGIES OY				
Street Address:	KARAPORTTI 3				
City:	ESPOO	ESPOO			
State/Country:	FINLAN	FINLAND			
Postal Code:	02610	02610			
CORRESPONDENCE Fax Number:		the e-mail address first; if that			
using a fax number, if	provided;	if that is unsuccessful, it will b		nt	
<i>using a fax number, if</i> Email:	f provided; th	r if that is unsuccessful, it will b nao.pham@nokia.com	be sent via US Mail.	nt	
using a fax number, if	f provided; tł	if that is unsuccessful, it will b	be sent via US Mail.	nt	
<i>using a fax number, if</i> Email: Correspondent Name:	f provided; th : N 2	r if that is unsuccessful, it will b nao.pham@nokia.com NOKIA USA INC. ATTN: IP DOCK	b e sent via US Mail. KETING	nt	
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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 <u>Attachment 1</u>, as are set forth in the Agreement.

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.

NOKIA CORPORATION

By: Name: Esa Nilnimäki Title: Authorized signatory Date: 16 January 2017

Date: Mes 2015

Name: Anna Oksall Title: Legal Cansel

Date: 16 January 2019

NOKIA TECHNOLOGIES OY By: Name: Title: lyri Lassi Date: Vice President, Legal & IP 16 January

Name: Second 615 KC/K

Name: Janni USAOK Title: Head of Frindrod and operations Date: NG Journs Only 2015

Attachment 1

Docket No.	Country	Serial No.	Filing Date
NC82256-US-PCT	United States of	14/898881	December 16, 2015
	America		