

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT4960335

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NOKIA CORPORATION	01/16/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NOKIA TECHNOLOGIES OY
<b>Street Address:</b>	KARAPORTTI 3
<b>City:</b>	ESPOO
<b>State/Country:</b>	FINLAND
<b>Postal Code:</b>	FI-02610
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15978990
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(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>	
<b>Phone:</b>	704-444-1000
<b>Email:</b>	usptomail@alston.com
<b>Correspondent Name:</b>	NOKIA CORPORATION AND ALSTON & BIRD LLP
<b>Address Line 1:</b>	BANK OF AMERICA PLAZA, 101 SOUTH TRYON S
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<b>Address Line 4:</b>	CHARLOTTE, NORTH CAROLINA 28280-4000
<b>ATTORNEY DOCKET NUMBER:</b>	042933/513794
<b>NAME OF SUBMITTER:</b>	GUY R. GOSNELL
<b>SIGNATURE:</b>	/Guy R. Gosnell/
<b>DATE SIGNED:</b>	05/14/2018
<b>Total Attachments: 2</b>	
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source=513794_Assign_Corp-Oy#page2.tif	

**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 Attachment 1 hereto (hereinafter "the Patents"), incorporated herein by reference;

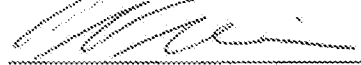
**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and in accordance with that certain Business Purchase Agreement between Nokia Corporation and Nokia Technologies having an effective date of 31 December 2014 (hereinafter "Agreement"):


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 Attachment 1 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 Attachment 1, as are set forth in the Agreement.

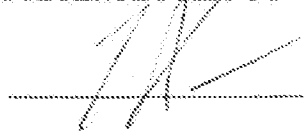
**IN WITNESS WHEREOF**, the parties have caused their respective corporate names to be affixed hereto and this instrument to be signed by their duly authorized officers as of the day and year written below.

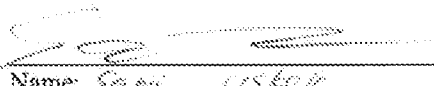
**NOKIA CORPORATION**

By:   
Name: Esa Niinimäki  
Title: Authorized signatory  
Date: 16 January 2015

  
Name: Anne Oksala  
Title: Legal Counsel  
Date: 16 January 2015

**NOKIA TECHNOLOGIES OY**

By:   
Name: Jyri Lassi  
Title: Vice President, Legal & IP  
Date: 16 January 2015

  
Name: Sanni Usko  
Title: Head of Finance and operations  
Date: 16 January 2015

Attachment 1

78120-US-PCT	United States Of America	24 Jan 2013	14/381775		
78113-US-NP	United States Of America	15 Jun 2012	13/524431		
78107-US-NP	United States Of America	07 May 2012	13/465614		
78104-US-NP	United States Of America	01 Mar 2012	13/409739		
78103-US-NP	United States Of America	01 Mar 2012	13/409836		
78100-US-CIP	United States Of America	19 Dec 2012	13/720454		
78099-US-NP	United States Of America	23 Mar 2012	13/428734		
78096-US-NP	United States Of America	07 May 2012	13/465284		
78089-US-PCT	United States Of America	17 Feb 2012	14/379321		
78088-US-NP	United States Of America	13 Mar 2012	13/418471		
78075-US-NP	United States Of America	14 Mar 2012	13/420085		
78071-US-NP	United States Of America	25 Apr 2012	13/455795		
78069-US-NP	United States Of America	01 Feb 2013	13/757529		
78053-US-PCT[2]	United States Of America	23 Jan 2013	14/376442		
78052-US-PCT	United States Of America	07 Mar 2012	14/373868		
78041-US-NP	United States Of America	03 May 2013	13/886819		
78037-US-NP	United States Of America	03 May 2012	13/463439	11 Nov 2014	8886782
78035-US-PCT	United States Of America	20 Mar 2013	14/387226		
78033-US-NP	United States Of America	24 Feb 2012	13/404146		
78031-US-NP	United States Of America	27 Apr 2012	13/458379		
78028-US-PCT	United States Of America	11 Jan 2013	14/374165		
78021-US-NP	United States Of America	17 Jan 2013	13/744142		
78017-US-NP	United States Of America	07 May 2012	13/465322		
77988-US-NP	United States Of America	21 Feb 2012	13/401289		
77984-US-NP	United States Of America	04 Jun 2012	13/487787		