

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3329553

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
NOKIA CORPORATION	01/16/2015

**RECEIVING PARTY DATA**

<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>	02610

**PROPERTY NUMBERS Total: 25**

Property Type	Number
Application Number:	12497434
Application Number:	12565435
Application Number:	12793235
Application Number:	12459088
Application Number:	12487184
Application Number:	12491729
Application Number:	12557678
Application Number:	12981289
Application Number:	12498872
Application Number:	13388988
Application Number:	13378321
Application Number:	12456881
Application Number:	12459022
Application Number:	13500625
Application Number:	12606842
Application Number:	13319315
Application Number:	12605644
Application Number:	12823065
Application Number:	12542373
Application Number:	13511645

PATENT

Property Type	Number
Application Number:	13378361
Application Number:	13376334
Application Number:	12468800
Application Number:	12468792
Application Number:	12488943

**CORRESPONDENCE DATA**

**Fax Number:**

*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.*

**Email:** thao.pham@nokia.com

**Correspondent Name:** NOKIA USA INC. ATTN: IP DOCKETING

**Address Line 1:** 200 SOUTH MATHILDA AVE

**Address Line 4:** SUNNYVALE, CALIFORNIA 94086

**NAME OF SUBMITTER:** THAO PHAM

**SIGNATURE:** /Thao Pham/

**DATE SIGNED:** 04/28/2015

**Total Attachments: 2**

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

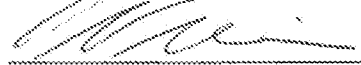
**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and in accordance with that certain Business Purchase Agreement between Nokia Corporation and Nokia Technologies having an effective date of 31 December 2014 (hereinafter "Agreement"):


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.

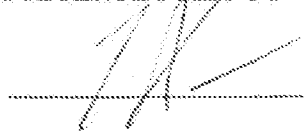
**IN WITNESS WHEREOF**, the parties have caused their respective corporate names to be affixed hereto and this instrument to be signed by their duly authorized officers as of the day and year written below.

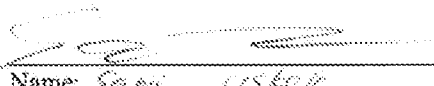
**NOKIA CORPORATION**

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 Lassila  
Title: Vice President, Legal & IP  
Date: 16 January 2015

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

## Attachment 1

69529-US-NP	United States Of America	02 Jul 2009	12/497434	22 Oct 2013	8565167
69517-US-NP	United States Of America	23 Sep 2009	12/565435	03 Apr 2012	8150835
69516-US-NP	United States Of America	03 Jun 2010	12/793235		
69505-US-NP	United States Of America	25 Jun 2009	12/459088	03 Jul 2012	8213610
69499-US-NP	United States Of America	18 Jun 2009	12/487184	04 Mar 2014	8667122
69498-US-NP	United States Of America	25 Jun 2009	12/491729		
69494-US-NP	United States Of America	11 Sep 2009	12/557678	04 Jun 2013	8457155
69470-US-NP	United States Of America	29 Dec 2010	12/981289		
69469-US-NP	United States Of America	07 Jul 2009	12/498872	18 Feb 2014	8655272
69452-US-PCT	United States Of America	04 Aug 2009	13/388988		
69446-US-PCT	United States Of America	29 Jun 2009	13/378321		
69423-US-NP	United States Of America	23 Jun 2009	12/456881	15 May 2012	8179457
69421-US-NP	United States Of America	24 Jun 2009	12/459022	01 Apr 2014	8687911
69412-US-PCT	United States Of America	12 Oct 2010	13/500625		
69401-US-NP	United States Of America	27 Oct 2009	12/606842	04 Feb 2014	8645738
69397-US-PCT	United States Of America	12 Mar 2010	13/319315		
69391-US-CIP	United States Of America	26 Oct 2009	12/605644	27 Nov 2012	8320598
69385-US-NP	United States Of America	24 Jun 2010	12/823065	24 Dec 2013	8615132
69378-US-NP	United States Of America	17 Aug 2009	12/542373	14 May 2013	8441465
69375-US-PCT	United States Of America	30 Nov 2009	13/511645		
69371-US-PCT	United States Of America	16 Jul 2009	13/378361		
69363-US-PCT	United States Of America	06 Apr 2010	13/376334		
69361-US-NP	United States Of America	19 May 2009	12/468800	19 Jun 2012	8204800
69358-US-NP	United States Of America	19 May 2009	12/468792		
69357-US-NP	United States Of America	22 Jun 2009	12/488943	31 Dec 2013	8621203