

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4018879

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:	KARAPORTTI 3	
City:	ESPOO	
State/Country:	FINLAND	
Postal Code:	02610	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	14795967
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:	042933/459495	
NAME OF SUBMITTER:	STEPHANIE R. CRISTIANO	
SIGNATURE:	/Stephanie R. Cristiano/	
DATE SIGNED:	08/23/2016	
Total Attachments: 4		
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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3327516

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:	KARAPORTTI 3
City:	ESPOO
State/Country:	FINLAND
Postal Code:	02610

PROPERTY NUMBERS Total: 25

Property Type	Number
Application Number:	12900990
Application Number:	12790288
Application Number:	12720288
Application Number:	12986896
Application Number:	13699321
Application Number:	13699115
Application Number:	12708778
Application Number:	12986885
Application Number:	12753476
Application Number:	10129271
Application Number:	13579024
Application Number:	13634841
Application Number:	13577369
Application Number:	12789049
Application Number:	13701367
Application Number:	12806672
Application Number:	12708786
Application Number:	13072386
Application Number:	12693667
Application Number:	13634080

Property Type	Number
Application Number:	13574661
Application Number:	12731791
Application Number:	12816687
Application Number:	12795047
Application Number:	12715578

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: 04/27/2015

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;

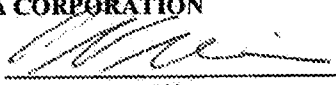
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency
of which are hereby acknowledged and in accordance with that certain Business Purchase
Agreement between Nokia Corporation and Nokia Technologies having an effective date of 31
December 2014 (hereinafter "Agreement");

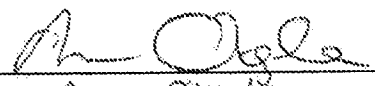
Nokia Corporation sells, assigns, transfers and conveys to Nokia Technologies, and its
successors and assigns, all right, title, and interest in and to each of the Patents and patent
applications listed in Attachment 1 hereto and all continuations, divisions, and reissues arising
from or related to the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

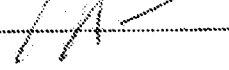
IN WITNESS WHEREOF, the parties have caused their respective corporate names to
be affixed hereto and this instrument to be signed by their duly authorized officers as of the day
and year written below.

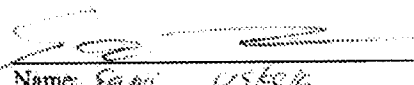
NOKIA CORPORATION

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


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

Attachment 1

71627-US-NP	United States Of America	08 Oct 2010	12/900990		
71626-US-NP	United States Of America	28 May 2010	12/790288		
71624-US-NP	United States Of America	09 Mar 2010	12/720288	16 Oct 2012	8289849
71623-US-NP	United States Of America	07 Jan 2011	12/986896	30 Sep 2014	8848801
71611-US-PCT	United States Of America	27 May 2010	13/699321		
71610-US-PCT	United States Of America	27 May 2010	13/699115		
71607-US-NP	United States Of America	19 Feb 2010	12/708778	16 Jul 2013	8488783
71602-US-NP	United States Of America	07 Jan 2011	12/986885	13 May 2014	8724692
71601-US-NP	United States Of America	02 Apr 2010	12/753476		
71600-US-PCT	United States Of America	26 Oct 2000	10/129271	03 May 2005	6889059
71592-US-PCT	United States Of America	17 Feb 2010	13/579024		
71588-US-PCT	United States Of America	24 Mar 2010	13/634841		
71587-US-PCT	United States Of America	09 Feb 2010	13/577369		
71586-US-NP	United States Of America	27 May 2010	12/789049	12 Aug 2014	8803661
71571-US-PCT	United States Of America	01 Jun 2010	13/701367		
71570-US-NP	United States Of America	17 Aug 2010	12/806672		
71568-US-NP	United States Of America	19 Feb 2010	12/708786		
71563-US-NP	United States Of America	25 Mar 2011	13/072386	16 Oct 2012	8290029
71552-US-NP	United States Of America	26 Jan 2010	12/693667		
71550-US-PCT	United States Of America	12 Mar 2010	13/634080		
71549-US-PCT	United States Of America	04 Feb 2010	13/574661	10 Feb 2015	8954452
71548-US-NP	United States Of America	25 Mar 2010	12/731791		
71537-US-NP	United States Of America	16 Jun 2010	12/816687		
71534-US-NP	United States Of America	07 Jun 2010	12/795047	12 Nov 2013	8583148
71530-US-NP	United States Of America	02 Mar 2010	12/715578		

RECORDED: 04/27/2015
RECORDED: 08/23/2016

PATENT
REEL: 035500 FRAME: 0931
PATENT
REEL: 039507 FRAME: 0584