

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3796580

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:	14261861
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:	DocketingDept-CLT@alston.com	
Correspondent Name:	ALSTON & BIRD LLP/NOKIA	
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Address Line 2:	SUITE 4000	
Address Line 4:	CHARLOTTE, NORTH CAROLINA 28280-4000	
ATTORNEY DOCKET NUMBER:	042933/444992	
NAME OF SUBMITTER:	DAVID S. EASWARAN	
SIGNATURE:	/David S. Easwaran/	
DATE SIGNED:	03/23/2016	
Total Attachments: 4		
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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT3316718

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	
Patent Number:	7190668	
Patent Number:	7039764	
Patent Number:	7181193	
Patent Number:	7907934	
Patent Number:	7706814	
Patent Number:	7680501	
Patent Number:	7317910	
Patent Number:	7372840	
Patent Number:	7978684	
Patent Number:	7574193	
Patent Number:	8295171	
Patent Number:	7945275	
Patent Number:	7843948	
Patent Number:	7590742	
Patent Number:	7409465	
Patent Number:	8751652	
Application Number:	10878609	
Patent Number:	7583969	
Patent Number:	7948990	
Patent Number:	7983244	

Property Type	Number
Application Number:	14333281
Patent Number:	8817772
Patent Number:	7197307
Application Number:	10732540
Patent Number:	8462798

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: Sandy.fong-Hou@nokia.com
Correspondent Name: NOKIA USA INC.
Address Line 1: 200 SOUTH MATHILDA AVE
Address Line 2: ATTN: INTELLECTUAL PROPERTY
Address Line 4: SUNNYVALE, CALIFORNIA 94086

ATTORNEY DOCKET NUMBER: SFH NCORP TO NTECH P19

NAME OF SUBMITTER: SANDY FONG-HOU

SIGNATURE: /Sandy Fong-Hou/

DATE SIGNED: 04/19/2015

Total Attachments: 2

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PATENT

REEL: 035083 FRAME: 0056

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;

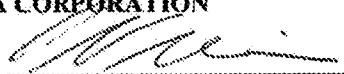
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency
of which are hereby acknowledged and in accordance with that certain Business Purchase
Agreement between Nokia Corporation and Nokia Technologies having an effective date of 31
December 2014 (hereinafter "Agreement"):

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.

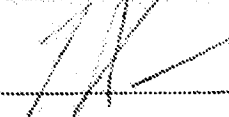
IN WITNESS WHEREOF, the parties have caused their respective corporate names to
be affixed hereto and this instrument to be signed by their duly authorized officers as of the day
and year written below.

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 Uusela
Title: Head of Finance and operations
Date: 16 January 2015

PATENT

REEL: 035083 FRAME: 0067

ATTACHMENT 1

40175-US-NP	United States Of America	27 Nov 2001	09/996479	13 Mar 2007	7190668
40174-US-NP	United States Of America	17 Jan 2002	10/052718	02 May 2006	7039764
40167-US-NP	United States Of America	15 Apr 2004	10/824565	20 Feb 2007	7181193
40145-US-NP	United States Of America	09 Sep 2004	10/936681	15 Mar 2011	7907934
40138C-US-NP	United States Of America	13 Aug 2004	10/917470	27 Apr 2010	7706814
40138B-US-NP	United States Of America	01 Dec 2004	11/000389	16 Mar 2010	7680501
40133-US-NP	United States Of America	17 Mar 2004	10/801640	08 Jan 2008	7317910
40127-US-NP	United States Of America	13 Apr 2004	10/822874	13 May 2008	7372840
40120-US-NP	United States Of America	14 Sep 2004	10/939516	12 Jul 2011	7978684
40119-US-NP	United States Of America	23 Jan 2004	10/762531	11 Aug 2009	7574193
40118-US-CNT	United States Of America	31 Mar 2011	13/077771	23 Oct 2012	8295171
40118-US-NP	United States Of America	20 Jan 2004	10/759453	17 May 2011	7945275
40107-US-NP	United States Of America	31 Mar 2004	10/813402	30 Nov 2010	7843948
40098-US-NP	United States Of America	03 Mar 2004	10/790726	15 Sep 2009	7590742
40089-US-NP	United States Of America	03 Feb 2004	10/769846	05 Aug 2008	7409465
40085-US-NP	United States Of America	23 Dec 2004	11/019225	10 Jun 2014	8751652
40074-US-NP	United States Of America	29 Jun 2004	10/878609		
40060-US-NP	United States Of America	08 Jun 2004	10/862468	01 Sep 2009	7583969
40049-US-NP	United States Of America	26 Mar 2004	10/809711	24 May 2011	7948990
40048-US-NP	United States Of America	11 Aug 2004	10/915636	19 Jul 2011	7983244
40047-US-CNT	United States Of America	16 Jul 2014	14/333281		
40047-US-NP	United States Of America	18 Jun 2004	10/870230	26 Aug 2014	8817772
40045-US-NP	United States Of America	03 May 2004	10/836619	27 Mar 2007	7197307
40013-US-NP	United States Of America	11 Dec 2003	10/732540		
39979-US-CNT	United States Of America	05 Mar 2009	12/379984	11 Jun 2013	8462798

PATENT

RECORDED 03/23/2015

REEL: 035686 FRAME: 0458