

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4978826

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	NOKIA CORPORATION	03/24/2013
RECEIVING PARTY DATA		
Name:	NOKIA INC.	
Street Address:	200 S. MATHILDA AVENUE	
City:	SUNNYVALE	
State/Country:	CALIFORNIA	
Postal Code:	94086	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	15989695	
CORRESPONDENCE DATA		
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<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>		
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ATTORNEY DOCKET NUMBER:	M089-0023USC4	
NAME OF SUBMITTER:	LYNNE MAHAN	
SIGNATURE:	/Lynne Mahan/	
DATE SIGNED:	05/25/2018	
Total Attachments: 4		
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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, Nokia Corporation, with an address at Keilalahdentie 2-4, 02150 Espoo, Finland ("Assignor"), does hereby assign, transfer and convey unto Nokia Inc., with an address at 200 S. Mathilda Avenue, Sunnyvale, CA 94086 ("Assignee"), all of Assignor's entire right, title and interest in and to (a) all Assigned Patents and patent applications listed below (including all inventions and discoveries claimed or otherwise disclosed therein); (b) all reissues, reexaminations, continuations, parents, continuations-in-part, divisionals and extensions (collectively "**Related Cases**") of such Assigned Patents and patent applications; (c) Assigned Patents or patent applications (i) to which any or all of the foregoing directly or indirectly claims priority, and (ii) for which any or all of the foregoing directly or indirectly forms a basis for priority; and (d) all Related Cases (whether pending, issued, abandoned or filed in the future) and foreign counterparts to any or all of the foregoing, certificates of invention and equivalent rights worldwide (collectively "**Patent Rights**");

Assigned Patents specified in Exhibit A attached hereto.

In addition, Assignor agrees to and hereby does sell, assign, transfer and convey unto Assignee all rights (i) in and to causes of action and enforcement rights for the Patent Rights including all rights to pursue damages, injunctive relief and other remedies for past, present and future infringement of the Patent Rights, (ii) the right to apply (or continue prosecution) in any and all countries of the world for Assigned Patents, design Assigned Patents, utility models, certificates of invention or other governmental grants for the Patent Rights, including under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement or understanding, and (iii) the rights, if any, to revive prosecution of any abandoned Patent Rights.

Assignor also hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all Assigned Patents or certificates of invention or equivalent which may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

The terms and conditions of this Assignment shall inure to the benefit of Assignee, its successors, assigns and other legal representatives, and shall be binding upon Assignor, its successor, assigns and other legal representatives.

IN WITNESS WHEREOF, this Assignment of Patent Rights is executed at Espoo
on 24 March 2013.

ASSIGNOR

By:

Name:

Title:

Jukka Nihtilä

Head, Business Development
Legal & IP

Virpi Tognetty

Director, Patenting Operations
Legal and Intellectual Property

PATENT

REEL: 045903 FRAME: 0996

Exhibit A

ASSIGNED PATENTS

Family	Case Reference	Country	Publication/Application Number	Grant Number
24387	24387-DE-EPA	DE	1001348	69923821.8
24387	24387-FI-NP	FI		116957
24387	24387-FR-EPA	FR	1001348	1001348
24387	24387-GB-EPA	GB	1001348	1001348
24387	24387-NL-EPA	NL	1001348	1001348
24387	24387-US-CNT	US	20070259622	
24387	24387-US-NP	US		7194038
35561	35561-FI-NP	FI		116562
35561	35561-US-NP	US	20030188205	7278033
36041	36041-EP-EPA	EP	1590739	
36041	36041-FI-NP	FI		117489
36041	36041-US-NP	US	20040225860	7257669
36911	36911-DE-EPA	DE	1615225	602004019279.1
36911	36911-FR-EPA	FR	1615225	1615225
36911	36911-GB-EPA	GB	1615225	1615225
36911	36911-US-NP	US	20060018154	7827370
36938	36938-CN-PCT	CN	1813197	200480018281.8
36938	36938-EP-EPT	EP	1639378	
36938	36938-HK-FPR	HK	1092532	1092532
36938	36938-IN-PCT	IN		230719
36938	36938-JP-PCT	JP	2007-528042	4291368
36938	36938-KR-PCT	KR	200625435	803768
36938	36938-PH-PCT	PH	WO2005/003797	1-2005-502219
36938	36938-PK-NP	PK	138988	138988
36938	36938-TW-NP	TW	253504	253504
36938	36938-US-CNT	US	20060107726	7275188
43833	43833-US-NP	US	20060101199	7899986
44196	44196-US-NP	US	20060077711	7468588
44275	44275-US-NP	US	20070228542	7498666
44401	44401-AU-PCT	AU		2005305564
44401	44401-BE-EPT	BE	1820110	1820110
44401	44401-BR-PCT	BR	PI0819042.8	
44401	44401-CA-PCD	CA		2723056
44401	44401-CA-PCT	CA		2587881
44401	44401-CN-PCT	CN	101084492	200580043855.1
44401	44401-DE-EPT	DE	1820110	602005023049.1
44401	44401-FR-EPT	FR	1820110	1820110
44401	44401-GB-EPT	GB	1820110	1820110
44401	44401-HK-FPR	HK	1110971	1110971
44401	44401-IN-PCT	IN	3423/DELNP/2007	
44401	44401-IT-EPT	IT	1820110	1820110
44401	44401-JP-PCT	JP	2008-521080	4739349
44401	44401-KR-PCT	KR	2007-86197	0919159

44401	44401-MX-PCT	MX		272157
44401	44401-NL-EPT	NL	1820110	1820110
44401	44401-RU-PCT	RU		2416819
44401	44401-SG-PCT	SG		132357
Family	Case Reference	Country	Publication/Assignment Number	Grant Number
44401	44401-US-NP	US	20060103948	7565469
44401	44401-ZA-PCT	ZA		2007/4397
44815	44815-US-NP	US	20060148282	7172454
44815		US	20070015379	7479018
48475	48475-US-NP	US	20060259789	
48729	48729-US-NP	US	20070049271	7564126
48971	48971-US-NP	US	20080010395	7721059
51547	51547-EP-EPT	EP	1977321	
51547	51547-JP-PCD	JP	2012-104672	
51547	51547-JP-PCT	JP	2009-524867	
51547		JP	2012181857	
51547	51547-KR-PCT	KR	08-87133	1098492
51547	51547-TW-NP	TW	200731070	
51547	51547-US-PCT	US	20100131695	8352701
51547		US	13/735159	
51586	51586-BR-PCT	BR	PI0621301.4	
51586	51586-CA-PCT	CA		2636848
51586	51586-CN-PCT	CN	102200923	
51586	51586-CN-PCT	CN	101361043	200680051271.3
51586	51586-DE-EPT	DE	1979809	802006025350.8
51586	51586-GR-EPT	GR	1979809	1979809
51586	51586-ID-PCT	ID	0484721	
51586	51586-IE-EPT	IE	1979809	1979809
51586	51586-IN-PCT	IN	6116/DELNP/2008	
51586	51586-JP-PCD	JP	2012-133892	
51586	51586-JP-PCT	JP	2009-524139	5965297
51586	51586-KR-PCT	KR	08-85914	0990188
51586	51586-MY-PCT	MY	PI20082553	
51586	51586-MY-PCT	MY	PI2012004792	
51586	51586-NG-PCT	NG		NG/C/2008/402
51586	51586-PH-PCT	PH	1-2008-501592	
51586	51586-RU-PCT	RU		2402804
51586	51586-SG-PCT	SG		144375
51586	51586-TN-EPT	TN	1979809	1979809
51586	51586-TW-NP	TW	200745949	
51586	51586-US-NP	US	20070168652	7739487
51586	51586-VN-PCT	VN	20502	
51755	51755-EP-ETD	EP	2178090	
51755	51755-KR-PCT	KR	08-99336	1078792
51755	51755-MY-PCT	MY	PI20083518	
51755	51755-MY-PCT	MY	PI2012005643	
51755	51755-TW-NP	TW	200739354	
51755	51755-US-NP	US	20070239926	7562180

52137	52137-CA-PCT	CA	2673434	
52137	52137-CN-PCT	CN	101627373	200780047706.1
52137	52137-EP-EPT	EP	2115595	
52137	52137-HK-FPR	HK	1137248	
Family	Case Reference	Country	Publication/Application Number	Grant Number
52137	52137-IN-PCT	IN	3478/CHENP/2009	
52137	52137-US-NP	US	20080155301	7515500
52562	52562-CN-PCT	CN	101512485	
52562	52562-EP-EPT	EP	2069925	
52562	52562-US-PCT	US	20100268867	
56933	56933-US-PCT	US	20110010483	
63666	63666-CN-PCT	CN	101952808	
63666	63666-EP-EPT	EP	2248023	
63666	63666-JP-PCT	JP	2011-513823	
63666	63666-KR-PCT	KR	10-126446	
63666		KR	2013-7002338	
63666	63666-US-NP	US	20090222639	8307180
63666		US	20130036283	
64573	64573-US-NP	US	20100125760	7996725
64574	64574-EP-EPT	EP	2359371	
64574	64574-US-PCT	US	20110219203	
67489		US	12/455763	
72627		US		8285920
74365	74365-US-NP	US	20120151241	
75291		US	13/112287	
75611		US	13/179689	
75611		WO	PCT/FI2012/050592	
75648		US	13/184885	
75648		WO	PCT/FI2012/050593	
76699		US	13/296367	
76878		WO	PCT/FI2011/051168	
77305		US	13/358806	
77305		WO	PCT/FI2013/050001	
78298		US	13/451951	
78774		US	13/527745	
79242		US	13/596480	

- End of Exhibit A -