

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4492667

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GEORG MAYER	06/03/2011
JARI MUTIKAINEN	08/03/2011
PETER LEIS	05/24/2011
<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>	02610
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15642193
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(858)314-1501
<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>Email:</b>	mscarr@mintz.com
<b>Correspondent Name:</b>	MINTZ LEVIN SAN DIEGO / PEDRO SUAREZ
<b>Address Line 1:</b>	3580 CARMEL MOUNTAIN ROAD
<b>Address Line 2:</b>	SUITE 300
<b>Address Line 4:</b>	SAN DIEGO, CALIFORNIA 92130
<b>ATTORNEY DOCKET NUMBER:</b>	39700-905C01US
<b>NAME OF SUBMITTER:</b>	PEDRO F. SUAREZ, ESQ.
<b>SIGNATURE:</b>	/PFS/
<b>DATE SIGNED:</b>	07/06/2017
<b>Total Attachments: 8</b>	
source=39700-905C01US_Assn#page1.tif	
source=39700-905C01US_Assn#page2.tif	
source=39700-905C01US_Assn#page3.tif	
source=39700-905C01US_Assn#page4.tif	

source=39700-905C01US\_Assn#page5.tif

source=39700-905C01US\_Assn#page6.tif

source=39700-905C01US\_Assn#page7.tif

source=39700-905C01US\_Assn#page8.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;

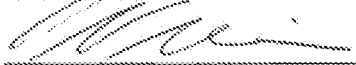
**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and in accordance with that certain Business Purchase Agreement between Nokia Corporation and Nokia Technologies having an effective date of 31 December 2014 (hereinafter "Agreement"):

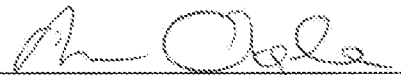
Nokia Corporation sells, assigns, transfers and conveys to Nokia Technologies, and its successors and assigns, all right, title, and interest in and to each of the Patents and patent applications listed in Attachment 1 hereto and all continuations, divisions, and reissues arising from or related to the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

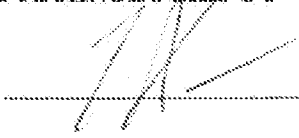
**IN WITNESS WHEREOF**, the parties have caused their respective corporate names to be affixed hereto and this instrument to be signed by their duly authorized officers as of the day and year written below.

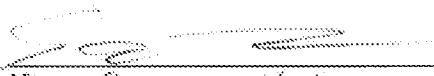
**NOKIA CORPORATION**

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 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

68575-US-PCT	United States Of America	08 Jun 2009	13/377139		
68566-US-NP	United States Of America	02 Jun 2009	12/455531	06 May 2014	8717392
68556-US-NP	United States Of America	29 Jun 2009	12/493812	25 Mar 2014	8681131
68551-US-NP	United States Of America	10 May 2010	12/776900		
68523-US-NP	United States Of America	09 Sep 2009	12/584664	16 Dec 2014	8912961
68507-US-NP	United States Of America	15 Apr 2009	12/424232		
68502-US-NP	United States Of America	19 Aug 2009	12/544095	03 Dec 2013	8599736
68496-US-NP	United States Of America	11 Mar 2009	12/381493	20 Mar 2012	8138436
68495-US-NP	United States Of America	10 Mar 2009	12/381402	24 Jul 2012	8226310
68492-US-NP	United States Of America	10 Mar 2009	12/381405	12 Jun 2012	8199487
68491-US-NP	United States Of America	20 Mar 2009	12/408610		
68475-US-NP	United States Of America	12 Jun 2009	12/484036	21 May 2013	8447715
68453-US-CIP	United States Of America	15 Mar 2011	13/048510		
68453-US-NP	United States Of America	29 May 2009	12/475430		
68451-US-NP	United States Of America	07 Sep 2010	12/877074		
68448-US-PCT	United States Of America	07 Sep 2010	13/394783		
68435-US-NP	United States Of America	30 Apr 2009	12/387355	01 Jan 2013	8344959
68428-US-NP	United States Of America	29 Apr 2009	12/432460	03 Jul 2012	8213360
68426-US-NP	United States Of America	03 Mar 2009	12/396789	30 Jul 2013	8498230
68425-US-CNT	United States Of America	16 Jan 2014	14/157114		
68425-US-NP	United States Of America	03 Mar 2009	12/396834		
68409-US-NP	United States Of America	23 Feb 2009	12/390880	16 Apr 2013	8422961
68406-US-NP	United States Of America	22 May 2009	12/471315		
68397-US-NP	United States Of America	05 Mar 2009	12/398680	02 Apr 2013	8411737
68386-US-PCT	United States Of America	10 May 2010	13/321135	14 Oct 2014	8862141

68383-US-NP	United States Of America	17 Apr 2009	12/425630	10 Jul 2012	8220004
68381-US-NP	United States Of America	06 Apr 2009	12/384549	26 Aug 2014	8816460
68354-US-NP	United States Of America	19 May 2010	12/783067	08 Jan 2013	8350735
68302-US-NP	United States Of America	22 May 2009	12/470520	29 Oct 2013	8571273
68268-US-PCT	United States Of America	08 Feb 2010	13/148884		
68267-US-NP	United States Of America	07 May 2009	12/437432	29 Oct 2013	8571519
68131-US-NP	United States Of America	30 Apr 2009	12/433714		
68127-US-PCT	United States Of America	17 Apr 2009	13/264588		
68075-US-NP	United States Of America	15 Apr 2009	12/386308	02 Jul 2013	8477957
68073-US-PCT	United States Of America	10 Feb 2010	13/148924		
68035-US-NP	United States Of America	18 May 2009	12/467872	15 May 2012	8180401
68033-US-NP	United States Of America	31 Mar 2009	12/415561		
68001-US-NP	United States Of America	10 Dec 2009	12/635473		
67861-US-PCT	United States Of America	02 May 2002	10/476261	16 May 2006	7047030
67858-US-PCT[2]	United States Of America	14 Dec 2009	13/148018		
67857-US-NP	United States Of America	26 Mar 2009	12/383705	30 Dec 2014	8924156
67838-US-NP	United States Of America	30 Jun 2009	12/495098		
67829-US-NP	United States Of America	22 Apr 2009	12/428405		
67826-US-NP	United States Of America	22 Apr 2009	12/428407		
67778-US-NP	United States Of America	17 Jun 2010	12/817748	25 Nov 2014	8897816
67776-US-PCT	United States Of America	21 Dec 2007	12/520541		
67761-US-PCT	United States Of America	19 Apr 2010	13/265009	25 Mar 2014	8681464
67755-US-PCT	United States Of America	03 Sep 2009	13/062219		
67726-US-PCT	United States Of America	25 May 2010	13/378355		
67698-US-PCT	United States Of America	12 Jun 1998	09/242383	28 Dec 2004	6836879

67697-US-PCT	United States Of America	13 Sep 2006	11/531524		
67688-US-CNT[2]	United States Of America	23 Jul 2007	11/781928	15 Dec 2009	7634069
67688-US-PCT	United States Of America	22 Aug 2001	10/362105	24 Jul 2007	7248677
67680-US-CNT	United States Of America	13 Dec 2006	11/609956		
67665-US-PCT	United States Of America	08 Sep 2006	10/559959	05 Aug 2014	8798606
67654-US-PCT	United States Of America	27 Aug 2002	10/487645	03 Jun 2014	8743891
67649-US-PCT	United States Of America	23 Jun 2004	10/561325	18 Jan 2011	7873863
67647-US-PCT	United States Of America	28 Jul 2004	10/566142	27 Oct 2009	7610479
67643-US-PCT	United States Of America	08 Aug 2006	12/063058		
67642-US-CNT	United States Of America	18 Oct 2006	11/550555	05 Mar 2013	8391892
67641-US-PCT	United States Of America	07 Oct 2004	10/574728	08 Apr 2014	8695018
67628-US-PCT	United States Of America	28 Oct 2004	10/595549	30 Mar 2010	7690007
67627-US-PCT	United States Of America	01 Apr 2005	10/599574	17 Apr 2012	8161481
67625-US-PCT	United States Of America	28 May 2003	10/515740	01 Feb 2011	7882352
67621-US-PCT	United States Of America	28 May 2003	10/515739	19 Jun 2012	8205094
67619-US-PCT	United States Of America	08 Aug 2006	12/063199	10 Apr 2012	8156350
67617-US-PCT	United States Of America	08 Jun 2005	11/570281		
67614-US-PCT	United States Of America	08 Jun 2005	11/570276	17 Jul 2012	8225296
67611-US-PCT	United States Of America	19 Nov 2004	10/595927		
67597-US-PCT	United States Of America	01 Mar 2006	11/817381	11 Dec 2012	8332856
67595-US-PCT	United States Of America	07 Dec 2007	12/518105	23 Dec 2014	8918787
67593-US-PCT	United States Of America	01 Mar 2006	11/817386	13 Mar 2012	8135938
67590-US-PCT	United States Of America	01 Apr 2005	10/599580	04 Oct 2011	8032895
67575-US-NP	United States Of America	30 Nov 2005	11/289993	08 Sep 2009	7587458
67570-US-NP	United States Of America	17 Apr 2009	12/425904		

**ASSIGNMENT**

Title of Invention	<b>ACCESS CHANGE FOR RE-ROUTING A CONNECTION</b>
<p>This Assignment is directed to (check all that apply):</p> <p><input type="checkbox"/> U.S. Provisional No. _____ filed on _____</p> <p><input checked="" type="checkbox"/> U.S. Application No. <u>13/148018</u> filed on <u>08/04/2011</u></p> <p><input checked="" type="checkbox"/> which is a 371 National Stage of <u>PCT/FI2009/050999</u> filed on <u>12/14/2009</u></p>	

As the below named inventor(s), I/we have invented certain improvements in the patent application for which I/we have filed an application for Letters Patent of the United States of America as identified above;

WHEREAS, I/we authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

WHEREAS, NOKIA CORPORATION, a corporation organized under the laws of Finland, having its principal office in Espoo, Finland (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and under the said invention and the said application, and in and to any and all Letters Patent which shall be granted therefore in the United States of America and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we have sold and do hereby sell, assign, transfer and convey unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and to said invention and application, and in all divisionals, reissues, substitutions, continuations, continuation-in-part and, in any and all Letters Patents of the United States of America and all foreign countries or reissues, reexaminations, or extensions thereof which may be granted therefore or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said ASSIGNEE, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

I/WE ALSO HEREBY authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom to the said ASSIGNEE of my/our entire right, title and interest.

I/WE FURTHER HEREBY sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including, without limitation, the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries. I/we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

I/WE HEREBY covenant that I/we have not and I/we will not execute any agreement in conflict herewith.

**ASSIGNMENT**

I/WE HEREBY further covenant, and agree to bind my/our heirs, legal representatives, and assigns, promptly to communicate to said ASSIGNEE or its representatives any facts known to me relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said ASSIGNEE, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF, I/we have hereunto set my/our hand and seal on the date indicated below.

Inventor: Georg MAYER

Date: 03 JUNE 2011

Signature: 

Residence: Vienna, AT

Witness Signature: 

Printed Name: ANDREA PASS

Date: 03 JUNE 2011

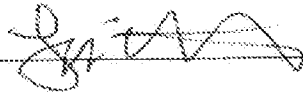


**ASSIGNMENT**

IN WITNESS WHEREOF, I/we have hereunto set my/our hand and seal on the date indicated below.

Inventor: Jari MUTIKAINEN

Date: AUG 3, 2011

Signature: 

Residence: Lepsämä, FI

Witness Signature: 

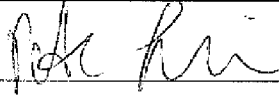
Printed Name: EIJA MUTIKAINEN

Date: AUG 3, 2011

**ASSIGNMENT**

IN WITNESS WHEREOF, I/we have hereunto set my/our hand and seal on the date indicated below.

Inventor: Peter LEIS Date: 24.05.2011

Signature:  Residence: Penzberg, DE

Witness Signature: 

Printed Name: MARTIN OETTL Date: 24.05.2011