

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5196132

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
ALCATEL LUCENT		07/02/2018
RECEIVING PARTY DATA		
Name:	NOKIA TECHNOLOGIES OY	
Street Address:	KARAPORTTI 3	
City:	02610 ESPOO	
State/Country:	FINLAND	
PROPERTY NUMBERS Total: 114		
Property Type	Number	
Patent Number:	6337987	
Patent Number:	6430398	
Patent Number:	6341225	
Patent Number:	6337988	
Patent Number:	6337973	
Patent Number:	7477912	
Patent Number:	6549785	
Patent Number:	RE41070	
Patent Number:	7711326	
Patent Number:	7626970	
Patent Number:	7167719	
Patent Number:	7477609	
Patent Number:	7586875	
Patent Number:	9801156	
Patent Number:	7130640	
Patent Number:	6996401	
Patent Number:	7376098	
Patent Number:	8005477	
Patent Number:	7843879	
Patent Number:	7826824	
Patent Number:	8903406	

PATENT

Property Type	Number
Patent Number:	9204491
Patent Number:	7787884
Patent Number:	7454224
Patent Number:	8094627
Patent Number:	8577342
Patent Number:	6782270
Patent Number:	6484287
Patent Number:	6501953
Patent Number:	7607054
Patent Number:	8243642
Patent Number:	7636334
Patent Number:	8054895
Patent Number:	8831120
Patent Number:	8179878
Patent Number:	7751415
Patent Number:	9144105
Patent Number:	8437371
Patent Number:	8544098
Patent Number:	8488703
Patent Number:	9131458
Patent Number:	7760698
Patent Number:	8248912
Patent Number:	8897124
Patent Number:	8451764
Patent Number:	8467328
Patent Number:	9451588
Patent Number:	9756680
Patent Number:	9264469
Patent Number:	8892069
Patent Number:	8818374
Patent Number:	9426637
Patent Number:	8755266
Patent Number:	8885532
Patent Number:	9265030
Patent Number:	8983512
Patent Number:	8867424
Patent Number:	9609611
Patent Number:	8942154

Property Type	Number
Patent Number:	8957938
Patent Number:	9485182
Patent Number:	8737525
Patent Number:	9124322
Patent Number:	9319847
Patent Number:	9473934
Patent Number:	9877303
Patent Number:	9647794
Patent Number:	9444658
Patent Number:	8948753
Patent Number:	9055544
Patent Number:	9532323
Patent Number:	9338801
Patent Number:	9532262
Patent Number:	9363800
Patent Number:	9288680
Patent Number:	9769808
Patent Number:	9467266
Patent Number:	9426808
Patent Number:	9178680
Patent Number:	9661623
Patent Number:	9877211
Patent Number:	9960826
Patent Number:	9794933
Patent Number:	9686802
Patent Number:	9386583
Patent Number:	9854523
Patent Number:	9277529
Patent Number:	9979518
Patent Number:	8874120
Patent Number:	9462458
Patent Number:	9946611
Patent Number:	9338136
Patent Number:	9655110
Patent Number:	9479487
Patent Number:	8280396
Patent Number:	9668177
Patent Number:	8787302

Property Type	Number
Patent Number:	9065606
Patent Number:	8179860
Patent Number:	8139735
Patent Number:	8494163
Patent Number:	9107066
Patent Number:	9503901
Patent Number:	8289933
Patent Number:	8086216
Patent Number:	8363593
Patent Number:	7715382
Patent Number:	8953432
Patent Number:	8996722
Patent Number:	9014181
Patent Number:	9100266
Patent Number:	6823191
Patent Number:	8457054
Patent Number:	8032183

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: narpatent@nokia.com

Correspondent Name: MARY T. POREMBA

Address Line 1: 600-700 MOUNTAIN AVENUE

Address Line 2: ROOM 6E-210

Address Line 4: MURRAY HILL, NEW JERSEY 07974-0636

ATTORNEY DOCKET NUMBER:	TECH-TRANSFERS (MTP)
NAME OF SUBMITTER:	NIRAJ A. DESAI
SIGNATURE:	/Niraj A. Desai/
DATE SIGNED:	10/19/2018

Total Attachments: 7

source=ALU-to-NokiaTECH_TechTransfers(USGrants)_FULLYEXECUTED#page1.tif
source=ALU-to-NokiaTECH_TechTransfers(USGrants)_FULLYEXECUTED#page2.tif
source=ALU-to-NokiaTECH_TechTransfers(USGrants)_FULLYEXECUTED#page3.tif
source=ALU-to-NokiaTECH_TechTransfers(USGrants)_FULLYEXECUTED#page4.tif
source=ALU-to-NokiaTECH_TechTransfers(USGrants)_FULLYEXECUTED#page5.tif
source=ALU-to-NokiaTECH_TechTransfers(USGrants)_FULLYEXECUTED#page6.tif
source=ALU-to-NokiaTECH_TechTransfers(USGrants)_FULLYEXECUTED#page7.tif

PATENT ASSIGNMENT

This Assignment is effective as of July 2, 2018 (the "Effective Date") by and between

Alcatel Lucent, a corporation organized under the laws of FRANCE, having its registered office at Site de Nokia Paris-Saclay, Route de Villejust, 91620 Nozay, France (hereinafter "Assignor") and **Nokia Technologies Oy**, a corporation organized under the laws of FINLAND, having its registered office at Karaportti 3, 02610 Espoo, Finland (hereinafter "Assignee").

WHEREAS, Assignor is the owner of certain patents and patent applications, as more particularly described in Attachment 1 (hereinafter "the Assigned Patents"), incorporated herein by reference;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged between **Alcatel Lucent** and **Nokia Technologies Oy**, having an effective date of **July 2, 2018** (hereinafter "Agreement"), Assignor hereby assigns, transfers and conveys to Assignee, and its successors and assigns, all right, title, and interest in and to (a) each of the Assigned Patents listed in Attachment 1 hereto (including all inventions and discoveries claimed or otherwise disclosed therein); (b) all reissues, re-examinations, continuations, parents, continuations-in-part, divisionals and extensions (collectively "Related Cases") of such Assigned Patents; (c) Assigned Patents (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"):

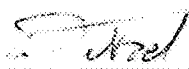
In addition, Assignor agrees to and hereby does assign, transfer and convey unto Assignee all rights (i) in and to causes of action and enforcement rights for the Patent Rights including all rights to pursue damages, injunctive relief and other remedies for past, present and future infringement of the 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 will inure to the benefit of Assignee, its successors or assigns, and anyone properly designated by them and will be binding upon Assignor, its successors or assigns, and anyone properly designated by them.

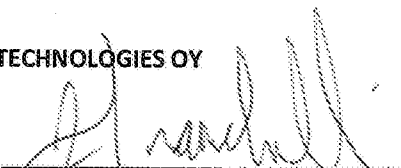
IN WITNESS WHEREOF, each of the Parties has caused this Assignment to be executed by its duly authorized representatives as of the Effective Date.

ALCATEL LUCENT

By: 
Name: Emmanuelle Werzel
Title: Director Patents
Date: 12 - OCT - 2018


Name: Dominico Menichetti
Title: Senior Corporate IP Counsel
Date: 12 OCT 2018

NOKIA TECHNOLOGIES OY

By: 
Name: John Granchelli
Title: Technology Area head
Date: 16 - OCT - 2018

NOKIA TECHNOLOGIES OY


Name: Marcel van der Sluis
Title: Sr. IP Corporate Counsel
Date: 16 OCT 2018

Attachment 1

Family Code	Case Reference	Country	Filing Number	Grant Number
102537	102537-US-NP	US	09/302985	6337987
102568	102568-US-NP	US	09/332942	6430398
102569	102569-US-NP	US	09/332939	6341225
102576	102576-US-NP	US	09/337677	6337988
102577	102577-US-NP	US	09/348005	6337973
102577	102577-US-CNT	US	10/036356	7477912
102723	102723-US-NP	US	09/372086	6549785
103164	103164-US-REI	US	11/128404	RE41070
103278	103278-US-NP	US	09/855499	7711326
103364	103364-US-NP	US	09/878269	7626970
103672	103672-US-PCT	US	10/416795	7167719
103710	103710-US-PCT	US	10/466058	7477609
103845	103845-US-NP	US	10/097631	7586875
103864	103864-US-NP	US	10/103102	9801156
104013	104013-US-NP	US	10/074000	7130640
104014	104014-US-NP	US	10/073950	6996401
104584	104584-US-PCT	US	10/482820	7376098
104585	104585-US-PCT	US	10/506140	8005477
104618	104618-US-PCT	US	10/509511	7843879
104820	104820-US-NP	US	10/637578	7826824
104822	104822-US-NP	US	10/634766	8903406
104832	104832-US-NP	US	10/766843	9204491
105096	105096-US-NP	US	10/753474	7787884

Family Code	Case Reference	Country	Filing Number	Grant Number
105452	105452-US-NP	US	11/016864	7454224
106248	106248-US-NP	US	11/627033	8094627
106479	106479-US-NP	US	11/836100	8577342
111384	111384-US-NP	US	09/313359	6782270
111556	111556-US-NP	US	09/398760	6484287
111591	111591-US-NP	US	09/414312	6501953
113913	113913-US-NP	US	10/863233	7607054
114080	114080-US-NP	US	10/893389	8243642
114526	114526-US-NP	US	11/109750	7636334
114938	114938-US-NP	US	11/640285	8054895
114938	114938-US-CNT	US	13/239979	8831120
115232	115232-US-NP	US	11/845988	8179878
120756	120756-US-NP	US	10/449666	7751415
140417	140417-US-NP	US	11/213836	9144105
140902	140902-US-PCT	US	12438110	8437371
150202	150202-US-CIP	US	11/366319	8544098
800850	800850-US-NP	US	12/046392	8488703
800901	800901-US-CNT	US	10/893842	9131458
800922	800922-US-DIV[2]	US	11/580024	7760698
800922	800922-US-DIV	US	11/414269	8248912
800922	800922-US-CNT	US	13/536185	8897124
801115	801115-US-PCT	US	12531744	8451764
801117	801117-US-PCT	US	12532287	8467328
801117	801117-US-CNT	US	13/896771	9451588

Family Code	Case Reference	Country	Filing Number	Grant Number
801120	801120-US-PCT	US	12531784	9756680
802696	802696-US-PCT	US	12/866116	9264469
803476	803476-US-NP	US	12/536268	8892069
804461	804461-US-PCT	US	13/377688	8818374
804865	804865-US-PCT	US	13/256677	9426637
804934	804934-US-NP	US	12/656448	8755266
805062	805062-US-PCT	US	13/318046	8885532
805062	805062-US-CNT	US	14/501142	9265030
805126	805126-US-PCT	US	13/266176	8983512
805138	805138-US-PCT	US	13/318105	8867424
805138	805138-US-CNT	US	14/518781	9609611
805139	805139-US-PCT	US	13/318074	8942154
805602	805602-US-PCT	US	13/503891	8957938
805634	805634-US-NP	US	13/173123	9485182
805789	805789-US-PCT	US	13/390796	8737525
805789	805789-US-CNT	US	14/267976	9124322
806727	806727-US-PCT	US	13/576274	9319847
806887	806887-US-PCT	US	13/640678	9473934
806891	806891-US-PCT	US	13/578326	9877303
807007	807007-US-PCT	US	13/580732	9647794
807204	807204-US-PCT	US	13/638801	9444658
807457	807457-US-NP	US	12/824695	8948753
808629	808629-US-NP	US	13/279556	9055544
809649	809649-US-PCT	US	14/115172	9532323

Family Code	Case Reference	Country	Filing Number	Grant Number
810116	810116-US-PCT	US	14/238022	9338801
810294	810294-US-PCT	US	14/238557	9532262
810794	810794-US-PCT	US	14/356648	9363800
811490	811490-US-NP	US	13/427175	9288680
811570	811570-US-PCT	US	14/386751	9769808
811614	811614-US-PCT	US	14/386740	9467266
811615	811615-US-PCT	US	14/386668	9426808
811664	811664-US-NP	US	13/428503	9178680
811799	811799-US-PCT	US	14/399687	9661623
812237	812237-US-PCT	US	14/416822	9877211
812422	812422-US-PCT	US	14/419464	9960826
812469	812469-US-PCT	US	14/431654	9794933
812471	812471-US-PCT	US	14/420055	9686802
812535	812535-US-NP	US	13/953093	9386583
812934	812934-US-PCT	US	14/439139	9854523
813782	813782-US-NP	US	13/858356	9277529
813799	813799-US-PCT	US	14/890268	9979518
813905	813905-US-NP	US	13/886195	8874120
813905	813905-US-CNT	US	14/511261	9462458
813905	813905-US-CNT[2]	US	15/267641	9946611
815294	815294-US-NP	US	14/265987	9338136
817246	817246-US-NP	US	14/587149	9655110
815294[1]	815294[1]-US-DIV	US	15/088784	9479487
Bachl 31-32-25 (RW)	Bachl 31-32-25 (RW)-US-NP	US	12/007516	8280396

Family Code	Case Reference	Country	Filing Number	Grant Number
Bakker 2-2-3-1 (H)	Bakker 2-2-3-1 (H)-US-PCT	US	13/058585	9668177
Balachandran 56-18-3-58 (K)	Balachandran 56-18-3-58 (K)-US-NP	US	12/233253	8787302
Balachandran 56-18-3-58 (K)	Balachandran 56-18-3-58 (K)-US-CNT	US	14/293606	9065606
Brusilovsky 9-2-41 (A)	Brusilovsky 9-2-41 (A)-US-CIP	US	12/378653	8179860
Cai 75-3-3-1-4-1-6-1-2 (Y)	Cai 75-3-3-1-4-1-6-1-2 (Y)-US-NP	US	11/563383	8139735
Casati 20-31-22 (A)	Casati 20-31-22 (A)-US-PCT	US	12/443109	8494163
Casati 20-31-22 (A)	Casati 20-31-22 (A)-US-CNT	US	13/803701	9107066
Casati 20-31-22 (A)	Casati 20-31-22 (A)-US-CNT[2]	US	14/706012	9503901
Das 12-16 (A)	Das 12-16 (A)-US-NP	US	09/982317	8289933
Feder 25-7 (PM)	Feder 25-7 (PM)-US-NP	US	11/849758	8086216
Gopalakrishnan 17-11-4 (N)	Gopalakrishnan 17-11-4 (N)-US-NP	US	10/289048	8363593
Lakshman 35-2-23-62-31 (TV)	Lakshman 35-2-23-62-31 (TV)-US-NP	US	11/147642	7715382
Lakshman 35-2-23-62-31 (TV)	Ansari 4-3-45-5-26-38 (FA)-US-NP	US	11/147491	8953432
Lakshman 35-2-23-62-31 (TV)	Lakshman 44-65-37 (TV)-US-NP	US	11/147768	8996722
Lakshman 35-2-23-62-31 (TV)	Lakshman 43-64-36 (TV)-US-NP	US	11/147937	9014181
Lakshman 35-2-23-62-31 (TV)	Ansari 3-42-4-25-35 (FA)-US-NP	US	11/147665	9100266
Laroia 26-18-11 (R)	Laroia 26-18-11 (R)-US-NP	US	09/756384	6823191
Laroia 26-18-11 (R)	Laroia 32-23-16 (R)-US-DIV	US	10/895720	8457054
Rudrapatna 54 (AN)	Rudrapatna 54 (AN)-US-NP	US	11/778282	8032183