

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5759736

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT
EFFECTIVE DATE:	06/30/2014

CONVEYING PARTY DATA

Name	Execution Date
NOKIA OF AMERICA CORPORATION	09/27/2019

RECEIVING PARTY DATA

Name:	ALCATEL LUCENT
Street Address:	SITE DE NOKIA PARIS-SACLAY, ROUTE DE VILLEJUST
City:	NOZAY
State/Country:	FRANCE
Postal Code:	91620

PROPERTY NUMBERS Total: 182

Property Type	Number
Patent Number:	5619648
Patent Number:	5631949
Patent Number:	5675376
Patent Number:	5687095
Patent Number:	5691768
Patent Number:	5699352
Patent Number:	5699507
Patent Number:	5724345
Patent Number:	5734432
Patent Number:	5742772
Patent Number:	5758338
Patent Number:	5768480
Patent Number:	5778336
Patent Number:	5781887
Patent Number:	5805696
Patent Number:	5806032
Patent Number:	5815196
Patent Number:	5842161
Patent Number:	5850561

PATENT

Property Type	Number
Patent Number:	5907351
Patent Number:	5909575
Patent Number:	5930393
Patent Number:	5943607
Patent Number:	5953049
Patent Number:	5953533
Patent Number:	5963742
Patent Number:	5966139
Patent Number:	5970122
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Patent Number:	6021219
Patent Number:	6034621
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Patent Number:	6282412
Patent Number:	6286035
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Patent Number:	6356356
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Patent Number:	6360250
Patent Number:	6362736
Patent Number:	6373985
Patent Number:	6377544
Patent Number:	6385169
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Patent Number:	6389397
Patent Number:	6393296
Patent Number:	6408430

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Patent Number:	6411621
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Property Type	Number
Patent Number:	7840807
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Patent Number:	7929941
Patent Number:	7941163
Patent Number:	7945237
Patent Number:	7991138
Patent Number:	7991424
Patent Number:	8559978

CORRESPONDENCE DATA

Fax Number: (908)320-4441

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Address Line 4: NEW PROVIDENCE, NEW JERSEY 07974

ATTORNEY DOCKET NUMBER:	SVI 9.0-002 [811]
NAME OF SUBMITTER:	MARSIA TIRRELL
SIGNATURE:	/marsia tirrell/
DATE SIGNED:	10/08/2019

Total Attachments: 7

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CONFIRMATORY ASSIGNMENT

This Confirmatory Patent Assignment (this "Assignment") effective as of June 30, 2014, by and between NOKIA OF AMERICA CORPORATION (formerly ALCATEL-LUCENT USA, INC.) a corporation established and existing under the laws of the United States of America, and having a principal place of business at 600-700 Mountain Avenue, Murray Hill, New Jersey 07974-0636, United States of America (the "Assignor"), and ALCATEL LUCENT, a corporation established and existing under the laws of France and having its principal place of business at Site de Nokia Paris-Saclay, Route de Villejust, 91620 Nozay, France (formerly 148/152 Route de la Reine, 92100 Boulogne-Billancourt, France) (the "Assignee"), Assignor and Assignee are collectively referred to as the "Parties" and individually referred to as a "Party."

WHEREAS, Assignor has previously assigned, transferred and conveyed all of its right, title and interest in and to, *inter alia*, (i) all of the patents and patent applications identified on Schedule A of this Assignment (the "Patents") to Assignee, (ii) the right, title and interest in and to any and all divisional, continuation, or reissue applications pertaining to the Patents, (iii) patents applied for or granted worldwide pertaining to the Patents and (iv) the right to sue and collect past damages in connection with the Patents, in the United States and throughout the world (i-iv collectively referred to as the "Patent Rights"), and Assignee agreed to accept the Patent Rights.

Now, THEREFORE, in consideration of the sum of one dollar (\$1.00), the receipt whereof is acknowledged, and other good and valuable consideration, NOKIA OF AMERICA CORPORATION (formerly ALCATEL-LUCENT USA, INC.), as Assignor, hereby confirms the above-noted Prior Assignment. Assignor hereby assigned, transferred, conveyed and set over to the Assignee, its successors and assigns, and Assignee accepted, all right, title and interest, in the United States and throughout the world, in and to the Patent Rights, to have and to hold the same, unto Assignee for its own use and enjoyment and for the use and enjoyment of its successors and assigns, for the full term or terms of all such rights. The assignment of the Patents included the right to file domestic patent applications under the laws of the United States and all other countries that claim the benefit of any of the foregoing applications, and to file foreign patent applications in the name of the Assignee or its affiliates, wherever such right may be legally exercised, including the right to claim the benefits of the international convention for such applications. The Parties confirm the receipt and sufficiency of which is hereby acknowledged, the Parties hereby agreed as follows:

1. Assignor hereby authorizes and requests the United States Commissioner of Patents, and the Patent Office officials in foreign countries as are duly authorized by the respective foreign patent laws to issue patents, to issue any and all patents within the Patent Rights to the Assignee as the owner thereof.
2. Assignor hereby agrees, without further consideration and without expense to the Assignor, to sign all documents and to perform all other lawful acts which the Assignee may reasonably request to make this Assignment of the Patent Rights fully effective.
3. This Assignment shall be binding upon, inure to the benefit of, and be enforceable by, the Parties and their respective successors and permitted assigns.

4. This Assignment shall be governed by, and construed in accordance with the laws of the State of New Jersey, U.S.A.

5. This Assignment may be executed and delivered (including electronically) in one or more counterparts, and by the Parties in separate counterparts, each of which when executed shall be deemed to be an original, but when taken together shall constitute one and the same agreement.

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be duly signed on its behalf.

ASSIGNOR:

**NOKIA OF AMERICA CORPORATION
(formerly ALCATEL-LUCENT USA INC.)**

By: <u><i>Irene L. Rappaport</i></u>	By: <u><i>Kathryn E. Olson</i></u>
Name: <u><i>Irene L. Rappaport</i></u>	Name: <u><i>KATHRYN E. OLSON</i></u>
Title: <u><i>Senior Legal Counsel, IP Law</i></u>	Title: <u><i>Patent Portfolio Counsel - IPCCM</i></u>
Date: <u><i>27 - Sept - 2019</i></u>	Date: <u><i>27 SEPT 2019</i></u>

ASSIGNEE:

ALCATEL LUCENT

By: <u><i>[Signature]</i></u>	By: <u><i>[Signature]</i></u>
Name: <u><i>Emmanuelle Wetzel</i></u>	Name: <u><i>Domenico Menziatti</i></u>
Title: <u><i>Director Patents</i></u>	Title: <u><i>Senior Patent Counsel</i></u>
Date: <u><i>07 - Oct - 2019</i></u>	Date: <u><i>07 - Oct - 2019</i></u>

SCHEDULE A

Nokia Case Reference	Country	Application Number	File Date	Grant Number	Grant Date
859532-US-NP	US	08/346715	30-Nov-1994	US5619648	08-Apr-1997
883734-US-NP	US	08/445486	22-May-1995	US5631949	20-May-1997
851722-US-NP	US	08/575972	21-Dec-1995	US5675376	07-Oct-1997
894243-US-NP	US	08/332984	01-Nov-1994	US5687095	11-Nov-1997
862116-US-NP	US	08/499807	07-Jul-1995	US5691768	25-Nov-1997
879016-US-NP	US	08/522040	31-Aug-1995	US5699352	16-Dec-1997
871670-US-NP	US	08/373342	17-Jan-1995	US5699507	16-Dec-1997
872537-US-NP	US	08/572248	13-Dec-1995	US5724345	03-Mar-1998
884972-US-NP	US	08/276069	15-Jul-1994	US5734432	31-Mar-1998
891161-US-CNT	US	08/851056	05-May-1997	US5742772	21-Apr-1998
867784-US-NP	US	08/704040	28-Aug-1996	US5758338	26-May-1998
863262-US-NP	US	08/327336	21-Oct-1994	US5768480	16-Jun-1998
861721-US-NP	US	08/722416	01-Oct-1996	US5778336	07-Jul-1998
876682-US-NP	US	08/728012	09-Oct-1996	US5781887	14-Jul-1998
875495-US-NP	US	08/762554	09-Dec-1996	US5805696	08-Sep-1998
891158-US-NP	US	08/663767	14-Jun-1996	US5806032	08-Sep-1998
851329-US-NP	US	08/581666	29-Dec-1995	US5815196	29-Sep-1998
862536-US-NP	US	08/668660	25-Jun-1996	US5842161	24-Nov-1998
862012-US-NP	US	08/312243	23-Sep-1994	US5850561	15-Dec-1998
861193-US-NP	US	08/547213	24-Oct-1995	US5907351	25-May-1999
886484-US-NP	US	08/846980	30-Apr-1997	US5909575	01-Jun-1999
874601-US-NP	US	08/909388	11-Aug-1997	US5930393	27-Jul-1999
890520-US-NP	US	08/732960	17-Oct-1996	US5943607	24-Aug-1999
874947-US-NP	US	08/691737	02-Aug-1996	US5953049	14-Sep-1999
868439-US-NP	US	08/971877	19-Nov-1997	US5953533	14-Sep-1999
893839-US-NP	US	08/925564	08-Sep-1997	US5963742	05-Oct-1999
851960-US-NP	US	08/739905	27-Sep-1996	US5966139	12-Oct-1999
879398-US-NP	US	08/686080	24-Jul-1996	US5970122	19-Oct-1999
891774-US-NP	US	08/720759	01-Oct-1996	US6006187	21-Dec-1999
851723-US-NP	US	08/782011	07-Jan-1997	US6021219	01-Feb-2000
877310-US-NP	US	08/972453	18-Nov-1997	US6034621	07-Mar-2000
879338-US-NP	US	08/915506	29-Jul-1997	US6075571	13-Jun-2000
875182-US-NP	US	09/012816	23-Jan-1998	US6138274	24-Oct-2000
862984-US-NP	US	08/928794	12-Sep-1997	US6141749	31-Oct-2000
804127-US-NP	US	09/189328	09-Nov-1998	US6185606	06-Feb-2001
870016-US-NP	US	09/170015	13-Oct-1998	US6191739	20-Feb-2001
871106-US-NP	US	08/922796	02-Sep-1997	US6219438	17-Apr-2001
887362-US-NP	US	08/971034	14-Nov-1997	US6222909	24-Apr-2001
862976-US-NP	US	09/425801	25-Oct-1999	US6236357	22-May-2001
877712-US-NP	US	09/082788	21-May-1998	US6243389	05-Jun-2001
891874-US-NP	US	08/984780	04-Dec-1997	US6259894	10-Jul-2001
870940-US-NP	US	08/252861	02-Jun-1994	US6271892	07-Aug-2001
891871-US-NP	US	08/984728	04-Dec-1997	US6272350	07-Aug-2001

Nokia Case Reference	Country	Application Number	File Date	Grant Number	Grant Date
881536-US-NP	US	09/120634	22-Jul-1998	US6282412	28-Aug-2001
871079-US-NP	US	09/240826	01-Feb-1999	US6286035	04-Sep-2001
874325-US-NP	US	08/870253	06-Jun-1997	US6335928	01-Jan-2002
135056-US-NP	US	09/212828	16-Dec-1998	US6356356	12-Mar-2002
861008-US-NP	US	09/132683	12-Aug-1998	US6360010	19-Mar-2002
851969-US-NP	US	09/221068	28-Dec-1998	US6360250	19-Mar-2002
870542-US-NP	US	09/477308	04-Jan-2000	US6362736	26-Mar-2002
860993-US-NP	US	09/132682	12-Aug-1998	US6373985	16-Apr-2002
884585-US-NP	US	09/136819	20-Aug-1998	US6377544	23-Apr-2002
893277-US-NP	US	09/124273	29-Jul-1998	US6385169	07-May-2002
890444-US-NP	US	09/440952	16-Nov-1999	US6389113	14-May-2002
885870-US-NP	US	09/220254	23-Dec-1998	US6389397	14-May-2002
888989-US-NP	US	08/832086	03-Apr-1997	US6393296	21-May-2002
872592-US-NP	US	09/146865	03-Sep-1998	US6408430	18-Jun-2002
885299-US-NP	US	09/137955	21-Aug-1998	US6411621	25-Jun-2002
851968-US-NP	US	09/221069	28-Dec-1998	US6411989	25-Jun-2002
891873-US-NP	US	08/985133	04-Dec-1997	US6414634	02-Jul-2002
879276-US-NP	US	09/334000	15-Jun-1999	US6418440	09-Jul-2002
883507-US-NP	US	09/023472	13-Feb-1998	US6421707	16-Jul-2002
866786-US-NP	US	09/073036	05-May-1998	US6430175	06-Aug-2002
878483-US-NP	US	09/307942	10-May-1999	US6434742	13-Aug-2002
135545-US-NP	US	09/455089	07-Dec-1999	US6445778	03-Sep-2002
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894401-US-NP	US	09/373076	11-Aug-1999	US6487585	26-Nov-2002
856761-US-NP	US	09/416624	12-Oct-1999	US6490456	03-Dec-2002
878923-US-NP	US	09/326095	04-Jun-1999	US6493594	10-Dec-2002
887690-US-NP	US	09/370340	06-Aug-1999	US6510439	21-Jan-2003
865307-US-NP	US	09/649451	25-Aug-2000	US6523074	18-Feb-2003
880822-US-NP	US	09/458499	11-Dec-1999	US6526125	25-Feb-2003
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139229-US-NP	US	09/504359	15-Feb-2000	US6529552	04-Mar-2003
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879734-US-NP	US	09/441245	16-Nov-1999	US6539539	25-Mar-2003
860618-US-NP	US	09/294997	20-Apr-1999	US6564065	13-May-2003
858179-US-NP	US	09/229809	13-Jan-1999	US6574601	03-Jun-2003
870015-US-NP	US	09/240079	29-Jan-1999	US6574658	03-Jun-2003
850833-US-NP	US	09/504401	15-Feb-2000	US6580787	17-Jun-2003
852018-US-NP	US	09/183994	02-Nov-1998	US6584076	24-Jun-2003
890440-US-NP	US	09/273714	22-Mar-1999	US6591097	08-Jul-2003
894400-US-NP	US	09/345378	30-Jun-1999	US6591300	08-Jul-2003
858181-US-NP	US	09/524964	14-Mar-2000	US6604075	05-Aug-2003
853954-US-NP	US	10/142769	13-May-2002	US6611752	26-Aug-2003
865051-US-NP	US	09/354595	16-Jul-1999	US6611924	26-Aug-2003
889701-US-NP	US	09/425783	25-Oct-1999	US6618165	09-Sep-2003

Nokia Case Reference	Country	Application Number	File Date	Grant Number	Grant Date
880007-US-NP	US	09/386037	30-Aug-1999	US6618699	09-Sep-2003
876118-US-NP	US	09/271812	18-Mar-1999	US6621797	16-Sep-2003
857946-US-NP	US	09/430509	29-Oct-1999	US6625260	23-Sep-2003
875857-US-NP	US	09/299327	26-Apr-1999	US6636969	21-Oct-2003
875837-US-NP	US	09/487516	19-Jan-2000	US6643658	04-Nov-2003
888184-US-NP	US	09/440047	15-Nov-1999	US6650902	18-Nov-2003
893559-US-NP	US	09/545070	07-Apr-2000	US6662211	09-Dec-2003
894402-US-NP	US	09/276244	25-Mar-1999	US6668353	23-Dec-2003
882468-US-NP	US	08/922492	03-Sep-1997	US6681017	20-Jan-2004
880052-US-NP	US	09/335279	17-Jun-1999	US6683871	27-Jan-2004
880175-US-NP	US	10/041564	10-Jan-2002	US6721401	13-Apr-2004
893315-US-NP	US	09/520247	07-Mar-2000	US6724722	20-Apr-2004
859130-US-NP	US	09/176419	21-Oct-1998	US6732273	04-May-2004
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878387-US-NP	US	09/499763	08-Feb-2000	US6785705	31-Aug-2004
854364-US-NP	US	09/574383	19-May-2000	US6804334	12-Oct-2004
873644-US-NP	US	09/363893	30-Jul-1999	US6813247	02-Nov-2004
854834-US-NP	US	10/696065	29-Oct-2003	US6839023	04-Jan-2005
875867-US-NP	US	09/800943	07-Mar-2001	US6873424	29-Mar-2005
870757-US-NP	US	09/283167	01-Apr-1999	US6873846	29-Mar-2005
874168-US-NP	US	09/883475	16-Jun-2001	US6894715	17-May-2005
892399-US-NP	US	10/209629	31-Jul-2002	US6901140	31-May-2005
884465-US-NP	US	09/795631	28-Feb-2001	US6944451	13-Sep-2005
855746-US-CNT[2]	US	10/864001	09-Jun-2004	US6944466	13-Sep-2005
857109-US-NP	US	09/920422	01-Aug-2001	US6948159	20-Sep-2005
861090-US-NP	US	08/778124	02-Jan-1997	US6968737	29-Nov-2005
851959-US-NP[2]	US	09/650512	29-Aug-2000	US6976210	13-Dec-2005
859734-US-NP	US	09/625760	26-Jul-2000	US6985442	10-Jan-2006
868878-US-NP	US	10/370332	19-Feb-2003	US6990353	24-Jan-2006
875877-US-NP	US	09/727904	01-Dec-2000	US7013295	14-Mar-2006
854975-US-NP	US	10/705305	10-Nov-2003	US7043232	09-May-2006
878379-US-NP	US	09/575910	23-May-2000	US7046812	16-May-2006
883330-US-NP	US	11/142086	31-May-2005	US7064619	20-Jun-2006
893315-US-CNT	US	10/825203	16-Apr-2004	US7065044	20-Jun-2006
854979-US-NP	US	10/768319	30-Jan-2004	US7065343	20-Jun-2006
891192-US-NP	US	09/383857	26-Aug-1999	US7072932	04-Jul-2006
853761-US-NP	US	10/027099	20-Dec-2001	US7085578	01-Aug-2006
852123-US-PCT	US	10/031773	12-Jun-2001	US7107269	12-Sep-2006
854964-US-NP	US	10/068018	05-Feb-2002	US7126938	24-Oct-2006
874332-US-NP	US	09/536084	24-Mar-2000	US7127745	24-Oct-2006
854971-US-NP	US	10/619866	15-Jul-2003	US7136462	14-Nov-2006
872043-US-NP	US	10/615043	08-Jul-2003	US7136661	14-Nov-2006
877828-US-NP	US	10/186840	01-Jul-2002	US7165025	16-Jan-2007
868895-US-NP	US	10/600109	20-Jun-2003	US7171228	30-Jan-2007

Nokia Case Reference	Country	Application Number	File Date	Grant Number	Grant Date
880069-US-NP	US	09/565660	05-May-2000	US7209947	24-Apr-2007
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892745-US-NP	US	11/228170	16-Sep-2005	US7991138	02-Aug-2011
854132-US-NP	US	12/036714	25-Feb-2008	US7991424	02-Aug-2011
813651-US-DIV	US	13/852742	28-Mar-2013	US8559978	15-Oct-2013