

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5534066

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
BANK OF AMERICA, N.A.	05/21/2019

RECEIVING PARTY DATA

Name:	LGS INNOVATIONS LLC
Street Address:	13665 DULLES TECHNOLOGY DRIVE
Internal Address:	SUITE 301
City:	HERNDON
State/Country:	GEORGIA
Postal Code:	20171

PROPERTY NUMBERS Total: 152

Property Type	Number
Application Number:	08649091
Application Number:	08668196
Application Number:	08777643
Application Number:	08777771
Application Number:	08777986
Application Number:	08871081
Application Number:	09027630
Application Number:	09121149
Application Number:	09195553
Application Number:	09262530
Application Number:	09276168
Application Number:	09283312
Application Number:	09286273
Application Number:	09303383
Application Number:	09330582
Application Number:	09332274
Application Number:	09398501
Application Number:	09413036
Application Number:	09421867

PATENT

Property Type	Number
Application Number:	09517907
Application Number:	09580094
Application Number:	09580648
Application Number:	09616107
Application Number:	09658084
Application Number:	09675003
Application Number:	09675007
Application Number:	09676179
Application Number:	09728043
Application Number:	09731213
Application Number:	09732454
Application Number:	09740124
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Application Number:	09999390
Application Number:	10081350
Application Number:	10108559
Application Number:	10117102
Application Number:	10160125
Application Number:	10161182
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Application Number:	10185747
Application Number:	10229850
Application Number:	10300891
Application Number:	10306934
Application Number:	10306935
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Application Number:	10348742
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Application Number:	10632065
Application Number:	10634403
Application Number:	10634481
Application Number:	10639524
Application Number:	10661300

Property Type	Number
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Application Number:	11459584
Application Number:	11460901
Application Number:	11518693
Application Number:	11540442

Property Type	Number
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Application Number:	12975485
Application Number:	12984020
Application Number:	12985564
Application Number:	13041384
Application Number:	13041386

Property Type	Number
Application Number:	13042730
Application Number:	13105460
Application Number:	13179924
Application Number:	13191689
Application Number:	13195244
Application Number:	13278344
Application Number:	13361207
Application Number:	13595093
Application Number:	13630311
Application Number:	13653630
Application Number:	13708028
Application Number:	13930641
Application Number:	14026953
Application Number:	60085752
Application Number:	60123291
Application Number:	60251748
Application Number:	60349947
Application Number:	60925813
Application Number:	60936842

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.

Phone: 404-962-7561

Email: AARON.REINHARDT@WBD-US.COM

Correspondent Name: WOMBLE BOND & DICKINSON LLP

Address Line 1: 271 17TH STREET, NW

Address Line 2: SUITE 2400

Address Line 4: ATLANTA, GEORGIA 30363-1017

ATTORNEY DOCKET NUMBER: 105041.0003.1

NAME OF SUBMITTER: AARON REINHARDT

SIGNATURE: /Aaron Reinhardt/

DATE SIGNED: 05/21/2019

Total Attachments: 17

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**TERMINATION AND RELEASE OF SECURITY INTEREST
IN INTELLECTUAL PROPERTY**

This **TERMINATION AND RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY**, dated as of May 21, 2019 ("Release"), is made by BANK OF AMERICA, N.A., as lender (the "Lender"), in favor of LGS INNOVATIONS LLC, a Delaware limited liability company (the "Grantor").

WHEREAS, pursuant to that certain (i) Security and Pledge Agreement dated as of March 31, 2014 by and among the Grantor and others party thereto, and the Lender (as amended, modified, supplemented, increased, extended, restated, refinanced and replaced from time to time, the "Security and Pledge Agreement"), and (ii) Intellectual Property Security Agreement date as of March 31, 2014, by and among the Grantor and the Lender (including all annexes, exhibits or schedules thereto, as from time to time amended, restated, supplemented or otherwise modified, the "Intellectual Property Security Agreement" and, together with the Security and Pledge Agreement, the "Security Agreements"), the Grantor granted to the Lender a continuing security interest in any and all right, title, and interest of Grantor in and to the IP Collateral, including the Patents, Patent Licenses, Trademarks, Trademark Licenses, Copyrights, and Copyright Licenses (as defined in the Security Agreements) and proceeds thereof; and

WHEREAS, the Intellectual Property Security Agreement was recorded with the United States Patent and Trademark Office at Reel 032579, Frame 0066 on April 1, 2014.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Lender and the Grantor agree as follows:

SECTION 1. Defined Terms. All capitalized terms used herein but not otherwise defined herein have the meanings given to them in the Security Agreements.

SECTION 2. Termination and Release. The Lender, without representation, warranty, or recourse, hereby:


(a) terminates, cancels, discharges, and releases the continuing security interest in, and the right to set off against, Grantor's right, title, and interest in and to all the IP Collateral, including, but not limited to, the foregoing listed on Schedule 1 attached hereto, granted pursuant to the Security Agreements; and

(b) authorizes the recordation of this Release with the USPTO at Grantor's expense.

SECTION 3. Choice of Law. This Release shall be governed by and construed in accordance with the laws of the State of New York.

IN WITNESS WHEREOF, the Lender has caused this Release to be duly executed as of the date first set forth above.

BANK OF AMERICA, N.A.

By: 
Name: Lisa Berishaj
Title: Assistant Vice President

[Signature Page - IP Termination]

PATENT
REEL: 049247 FRAME: 0564

SCHEDULE 1

(See attached)

SCHEDULE 1

Patents and Patent Applications

	Alcatel Lucent Ref. No.	Patent No.	CTRY	Issue Date	Expiry / Abandonment Date	Application No.	Application Date	Title	Current Owner
1.	805043-US-NP	US8320039	US	27-Nov-2012	17-May-2031	12/761538	16-Apr-2010	Cladding-Pumped Optical Amplifier Having Reduced Susceptibility To Spurious Lasing	LGS Innovations LLC
2.	805865-US-NP		US		12-Nov-2030	12/945342	12-Nov-2010	Enhanced Free-Space Optical Communication In Fog Via Field Segmentation And Adaptive Equalization	LGS Innovations LLC
3.	806802-US-NP	US8610625	US	17-Dec-2013	06-Jul-2031	12/975485	22-Dec-2010	Method And Apparatus For Transmitting And Receiving Phase-Controlled Radio Frequency Signals	LGS Innovations LLC
4.	806827-US-NP	US8440299	US	14-May-2013	26-Jun-2031	12/712373	25-Feb-2010	Composite Dielectric Material For High-Energy-Density Capacitors	LGS Innovations LLC
5.	806874-US-NP		US		05-Mar-2031	13/041384	5-Mar-2011	System, Method, And Apparatus For High-Sensitivity Optical Detection	LGS Innovations LLC
6.	807123-US-NP		US		06-Jan-2031	12/985564	6-Jan-2011	Frequency Dependent I/Q Imbalance Compensation	LGS Innovations LLC
7.	807729-US-NP		US		04-Jan-2031	12/984020	4-Jan-2011	Tracking And Alerting Populations Using Wireless, Wireline And Internet Mechanisms	LGS Innovations LLC
8.	807921-US-NP		US		29-Oct-2030	12/915506	29-Oct-2010	WDM MIMO Coherent Free-Space Optical Link	LGS Innovations LLC and Alcatel Lucent
9.	808025-US-NP	US8611708	US	17-Dec-2013	13-Feb-2032	12/949091	18-Nov-2010	Optical Apparatus Having Improved Resistance To Thermal Damage	LGS Innovations LLC

	Alcatel Lucent Ref. No.	Patent No.	CTRY	Issue Date	Expiry / Abandonment Date	Application No.	Application Date	Title	Current Owner
10.	809324-US-NP		US		05-Mar-2031	13/041386	5-Mar-2011	System, Method, and Apparatus For High-Sensitivity Optical Detection	LGS Innovations LLC
11.	809724-US-NP		US		01-Aug-2031	13/195244	1-Aug-2011	Low-Aspect Antenna Having A Vertical Electric Dipole Field Pattern	LGS Innovations LLC
12.	810328-US-NP		US		21-Oct-2031	13/278344	21-Oct-2011	Method Of Making Graphene Layers, And Articles Made Thereby	LGS Innovations LLC
13.	810723-US-NP		US		07-Dec-2032	13/708028	7-Dec-2012	Improved Gas Dispersion Disc Assembly	Unpublished
14.	811908-US-NP		US		17-Oct-2032	13/653630	17-Oct-2012	Method And Apparatus For Graphene-Based Chemical Detection	Unpublished
15.	812407-US-NP		US		28-Sep-2032	13/630311	28-Sep-2012	Cooling Technique	Unpublished
16.	813931-US-NP		US		13-Sep-2033	14/026953	13-Sep-2013	Apparatus And Method To Deposit Doped Films	Unpublished
17.	814282-US-NP		US		28-Jun-2033	13/930641	28-Jun-2013	Method And Apparatus For Enabling Queries In An Information-Centric Network	Unpublished
18.	Bishop 59-21-18-23-26-25 (DJ)-US-DIV		US		19-Jan-2012	11/784783 Abandoned 7/13/2012	09-Apr-2007	Micro-Channel Chemical Concentrator	unavailable
19.	811311-US-DIV	US8414833	US	09-Apr-2013	25-Feb-2024	13/361207	30-Jan-2012	Micro-Channel Chemical Concentrator Apparatus	Alcatel Lucent
20.	Bishop 57-17-4-19-14-18 (DJ)-US-NP	US7220388	US	22-May-2007	14-Feb-2025	10/786199	25-Feb-2004	Micro-Channel Chemical Concentrator	Alcatel-Lucent USA Inc.
21.	Pardo 22-15-26-9 (F)-US-NP	US8018316	US	13-Sep-2011	01-Mar-2029	11/747555	11-May-2007	Electroless Plating Production Of Nickel And Cobalt Structures	Alcatel Lucent
22.	809772-US-DIV		US		11-May-2027	13/105460	11-May-2011	Electroless Plating Production Of Nickel And Cobalt Structures	Alcatel-Lucent USA Inc.
23.	Abate 2-6-12-76-1-2 (JA)-US-NP	US6411414	US	25-Jun-2002	19-Nov-2018	09/195553	19-Nov-1998	Wavelength Division Multiplexing Wireless Optical Link	Alcatel-Lucent USA Inc.
24.	Ahmed 18-1-2 (W)-US-NP	US7181668	US	20-Feb-2007	04-May-2023	10/108559	29-Mar-2002	Method And System Of Decoding An Encoded Data Block	Alcatel-Lucent USA Inc.

	Alcatel Lucent Ref. No.	Patent No.	CTRY	Issue Date	Expiry / Abandonment Date	Application No.	Application Date	Title	Current Owner
25.	Balachandran 5-11-26-1-1-1 (K)-US-PSP		US		05-Apr-1999	60/085752	17-May-1998	System And Method For Medium Access Control In A Wireless Data Communication System	Alcatel-Lucent USA Inc.
26.	Balachandran 10-15-33-4-5-2 (K)-US-NP	US6625133	US	23-Sep-2003	31-Mar-2019	09/283312	31-Mar-1999	System And Method For Link And Media Access Control Layer Transaction Initiation Procedures	Alcatel-Lucent USA Inc.
27.	Balachandran 5-11-26-1-1-1 (K)-US-NP	US6611515	US	26-Aug-2003	05-Apr-2019	09/286273	5-Apr-1999	System And Method For Medium Access Control In A Wireless Data Communication System	Alcatel-Lucent USA Inc.
28.	Balachandran 9-45-14-31-3-4 (K)-US-NP	US6975611	US	13-Dec-2005	03-Mar-2020	09/517907	3-Mar-2000	Method And Device For MAC Layer Feedback In A Packet Communication System	Alcatel-Lucent USA Inc.
29.	Balachandran 9-45-14-31-3-4 (K)-US-PSP		US		03-Mar-2000	60/123291	04-Mar-1999	A System And Method For Implicit MAC Layer Addressing For Cellular Packet Communication Systems	Alcatel-Lucent USA Inc.
30.	Balogh 3-3-16-12-12 (DA)-US-NP	US6842441	US	11-Jan-2005	19-Dec-2020	09/740124	19-Dec-2000	Data Transmission In A Wireless Communication System	Alcatel-Lucent USA Inc.
31.	Balogh 4-4-4-18 (DA)-US-NP	US7366518	US	29-Apr-2008	22-Mar-2022	09/728043	1-Dec-2000	Supplemental Channel Sharing Algorithm	Alcatel-Lucent USA Inc.
32.	Basavanhally 43-22-30-26-55-5-39-7-27 (NR)-US-NP	US7832462	US	16-Nov-2010	23-Oct-2028	12/080408	31-Mar-2008	Thermal Energy Transfer Device	Alcatel-Lucent USA Inc.
33.	Bass 1-1-1-1-3 (EW)-US-NP	US7487227	US	03-Feb-2009	01-Mar-2027	10/860235	3-Jun-2004	Scripting Engine For Network Communication Software	Alcatel-Lucent USA Inc.
34.	Beacken 5-4-2-17 (MJ)-US-NP	US6868519	US	15-Mar-2005	23-Apr-2021	09/839486	23-Apr-2001	Reducing Scintillation Effects For Optical Free-Space Transmission	Alcatel-Lucent USA Inc.
35.	Beacken 6 (MJ)-US-NP	US7764882	US	27-Jul-2010	04-Dec-2028	10/306935	29-Nov-2002	Optical Packet Tray Router	Alcatel-Lucent USA Inc.

	Alcatel Lucent Ref. No.	Patent No.	CTRY	Issue Date	Expiry / Abandonment Date	Application No.	Application Date	Title	Current Owner
36.	Beacken 7 (MJ)-US-NP	US7206509	US	17-Apr-2007	29-Jun-2024	10/306934	29-Nov-2002	Method And Apparatus For Temporally Shifting One Or More Packets Using Wavelength Selective Delays	Alcatel-Lucent USA Inc.
37.	Beacken 9-4 (MJ)-US-NP	US8086103	US	27-Dec-2011	29-Feb-2028	10/835086	29-Apr-2004	Methods And Apparatus For Communicating Dynamic Optical Wavebands (DOWBs)	Alcatel Lucent
38.	Berlinsky 1 (AM)-US-NP	US6633743	US	14-Oct-2003	24-Dec-2016	08/777986	24-Dec-1996	Remote Wireless Communication Device	Alcatel-Lucent USA Inc.
39.	Berlinsky 4-2-1-2 (AM)-US-NP		US		02-Feb-2009	11/350511 Abandoned 5/27/2009	09-Feb-2006	Internet Based Assisted Global Positioning System	Alcatel-Lucent USA Inc.
40.	Bernasconi 11-19 (PA)-US-NP	US8073333	US	06-Dec-2011	26-Jun-2030	11/941191	16-Nov-2007	Multiplex Delay Unit	Alcatel-Lucent
41.	Bernasconi 12-20 (PA)-US-NP	US7945165	US	17-May-2011	26-Nov-2029	11/941201	16-Nov-2007	Optical Signal Synchronizer	Alcatel-Lucent USA Inc.
42.	Bhardwaj 1-3 (A)-US-NP	US6952172	US	04-Oct-2005	19-Mar-2024	10/804321	19-Mar-2004	All-Optical Linear Feedback Shift Register	Alcatel-Lucent USA Inc.
43.	Bi 24-1-15-3-23 (Q)-US-NP	US7596089	US	29-Sep-2009	18-Aug-2026	10/160125	4-Jun-2002	Scheduler Method And Apparatus For Communication Systems	Alcatel-Lucent USA Inc.
44.	Bi 27-2-17-5-27 (Q)-US-CIP	US7746779	US	29-Jun-2010	08-Jan-2026	10/300891	21-Nov-2002	Method and Apparatus for Scheduling Users to Allocate Data Transmissions in Communication Systems	Alcatel-Lucent USA Inc.
45.	Bi 25-4-25-3-4 (Q)-US-NP	US7558196	US	07-Jul-2009	23-Apr-2027	10/117102	8-Apr-2002	Method And Apparatus For System Resource Management In A Communications System	Alcatel-Lucent USA Inc.
46.	Bi 41-21-31-17 (Q)-US-NP	US7587206	US	08-Sep-2009	24-Sep-2025	11/213322	26-Aug-2005	Providing Overload Control In Relatively High-Speed Wireless Data Networks	Alcatel-Lucent USA Inc.
47.	Bi 45-35-21 (Q)-US-NP	US7542448	US	02-Jun-2009	16-Jan-2027	11/241822	30-Sep-2005	Providing Handoff In A Spread Spectrum Wireless Communications System For High Rate Packet Data	Alcatel-Lucent USA Inc.

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48.	Bi 46-4-3-36-22 (Q)-US-NP	US7636582	US	22-Dec-2009	22-Oct-2028	11/241897	30-Sep-2005	Providing Power Control In A Reverse Link Of A Wireless Spread-Spectrum Data Network For Bursty Traffic	Alcatel-Lucent USA Inc.
49.	Bolle 27-23 (CA)-US-NP	US7645952	US	12-Jan-2010	11-Mar-2027	11/518693	11-Sep-2006	Mechanical Switch With Melting Bridge	Alcatel-Lucent USA Inc.
50.	Braun 1-18-15 (LM)-US-PSP		US		01-Feb-2001	60/251748	06-Dec-2000	Variable Optical Delay Lines And Methods For Making Same	Alcatel-Lucent USA Inc.
51.	Braun 1-18-15 (LM)-US-NP	US6934431	US	23-Aug-2005	01-Feb-2021	09/773844	1-Feb-2001	Variable Optical Delay Lines And Methods For Making Same	Alcatel-Lucent USA Inc.
52.	Braun 2-16-2 (LM)-US-NP	US6748129	US	08-Jun-2004	22-Feb-2022	10/081350	22-Feb-2002	Method And Apparatus For Monitoring Optical Power Level In Waveguiding Structures	Alcatel-Lucent USA Inc.
53.	Chandrashekar 2-1-1-3-1-1-6-1-1 (U)-US-NP	US8256002	US	28-Aug-2012	26-May-2029	10/348742	21-Jan-2003	Tool, Method and Apparatus for Assessing Network Security	Alcatel Lucent
54.	Chandrashekar 2-1-1-3-1-1-6-1-1 (U)-US-PSP		US		21-Jan-2003	60/349947 Expired 9/1/2003	18-Jan-2002	Network Element Security Method	
55.	Chandrashekar 2-1-1-3-1-1-6-1-1 (U)-US-CNT		US		21-Jan-2023	13/595093	27-Aug-2012	Tool, Method and Apparatus for Assessing Network Security	Alcatel Lucent
56.	Chang 1-18 (KW)-US-NP	US7515780	US	07-Apr-2009	25-Nov-2026	11/586093	25-Oct-2006	System And Method For Fabricating An Optical Isolator	Alcatel-Lucent USA Inc.
57.	Chen 8-6-5-8-4 (G)-US-NP	US7847364	US	07-Dec-2010	20-Mar-2029	11/824667	2-Jul-2007	Flexible Photo-Detectors	Alcatel-Lucent USA Inc.
58.	Cheng 18-13-16 (TS)-US-NP	US6925057	US	02-Aug-2005	06-Dec-2020	09/731213	6-Dec-2000	Method Of Scheduling A Quality Of Service Level In A High Data Rate System	Alcatel-Lucent USA Inc.
59.	Cheng 19-14-17 (TS)-US-NP	US6999425	US	14-Feb-2006	18-Jan-2023	09/732454	7-Dec-2000	Dynamic Reverse Link Rate Limit Algorithm For High Data Rate System	Alcatel-Lucent USA Inc.

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60.	Cupo 22-4-7-10 (RL)-US-NP	US6661771	US	09-Dec-2003	17-Sep-2019	09/398501	17-Sep-1999	Method And Apparatus For Interleaver Synchronization In An Orthogonal Frequency Division Multiplexing (OFDM) Communication System	Alcatel-Lucent USA Inc.
61.	Cupo 24-5-9-21 (RL)-US-DIV	US7505396	US	17-Mar-2009	02-Apr-2022	10/661300	12-Sep-2003	Method And Apparatus For Establishing Interleaver Synchronization In An Orthogonal Frequency Division Multiplexing (OFDM) Communication System	Alcatel-Lucent USA Inc.
62.	Cupo 23-12-1-5-33-2 (RL)-US-NP	US7359446	US	15-Apr-2008	28-Jun-2025	10/639524	13-Aug-2003	Methods And Devices For Decoding Signals Containing Noise And Distortion	Alcatel-Lucent USA Inc.
63.	de Barros 1-2-4 (MR)-US-NP	US5774606	US	30-Jun-1998	17-May-2016	08/649091	17-May-1996	Optical Fiber Transmission System With A Passive Optical Router	Alcatel-Lucent USA Inc.
64.	de Barros 2-3-1-5-8-18 (MR)-US-NP	US5721796	US	24-Feb-1998	21-Jun-2016	08/668196	21-Jun-1996	Optical Fiber Cross Connect With Active Routing For Wavelength Multiplexing And Demultiplexing	Alcatel-Lucent USA Inc.
65.	DiGiovanni 48-12 (DJ)-US-NP	US6389186	US	14-May-2002	30-Apr-2019	09/303383	30-Apr-1999	Optical Waveguide Lasers And Amplifiers With Pump Power Monitors	Alcatel-Lucent USA Inc.
66.	Doerr 144-10 (CR)-US-DIV	US8216637	US	10-Jul-2012	23-May-2029	12/371889	16-Feb-2009	Thermally Stabilized Waveguides	Alcatel Lucent
67.	Doerr 124-5 (CR)-US-NP	US7515808	US	07-Apr-2009	01-Jun-2027	11/757098	1-Jun-2007	Thermally Stabilized Waveguides	Alcatel-Lucent USA Inc.
68.	Dominique 31-14-4-17 (F)-US-NP	US7894514	US	22-Feb-2011	04-Jan-2029	11/238847	29-Sep-2005	Receiver Techniques For Wireless Communication	Alcatel-Lucent USA Inc.
69.	Duncan 1-1-3-9-11 (V)-US-NP	US7283550	US	16-Oct-2007	28-Apr-2025	10/185025	28-Jun-2002	Voice And Data Call Admission Policies For A Wireless Communication System	Alcatel-Lucent USA Inc.

	Alcatel Lucent Ref. No.	Patent No.	CTRY	Issue Date	Expiry / Abandonment Date	Application No.	Application Date	Title	Current Owner
70.	Engelberth 13-2-15 (JW)-US-NP	US7215860	US	08-May-2007	05-May-2025	11/120212	2-May-2005	Optical Transmission Fiber With A Glass Guiding Cladding	Alcatel-Lucent USA Inc.
71.	Florkey 13-7-3 (C)-US-NP	US7272398	US	18-Sep-2007	15-Dec-2024	10/719869	21-Nov-2003	Providing To Sender Of Message An Identifier Of Service Provider Associated With Recipient Of The Message	Alcatel-Lucent USA Inc.
72.	Florkey 34-32-13 (C)-US-DIV	US8005494	US	23-Aug-2011	16-Jan-2027	11/796641	27-Apr-2007	Providing To Sender Of Message An Identifier Of Service Provider Associated With Recipient Of The Message	Alcatel-Lucent USA Inc.
73.	Florkey 29-27-9 (C)-US-NP	US8125990	US	28-Feb-2012	29-Dec-2030	11/372591	10-Mar-2006	Silent Probe For Network Delay Reporting	Alcatel Lucent
74.	Florkey 30-28-10 (C)-US-NP	US7542768	US	02-Jun-2009	16-Feb-2027	11/277248	23-Mar-2006	Dynamic Ring Start Delay Based On Multiple Factors	Alcatel-Lucent USA Inc.
75.	Flynn 1-1 (LA)-US-NP	US8046834	US	25-Oct-2011	22-Feb-2029	11/093303	30-Mar-2005	Method Of Polymorphic Detection	Alcatel Lucent
76.	Frahm 11-13-24 (RE)-US-NP	US7692198	US	06-Apr-2010	27-Nov-2027	11/676329	19-Feb-2007	Wide-Bandgap Semiconductor Devices	Alcatel-Lucent USA Inc.
77.	Frahm 11-13-24 (RE)-US-DIV		US		19-Feb-2027	12/635436	10-Dec-2009	Wide-Bandgap Semiconductor Devices	Alcatel-Lucent USA Inc.
78.	Gandhi 10-16-15-24 (AD)-US-NP	US7565152	US	21-Jul-2009	18-Mar-2026	10/632065	31-Jul-2003	A Method Of Controlling Overload Over The Reverse Link	Alcatel-Lucent USA Inc.
79.	Gandhi 3-1-2-2-7 (AD)-US-NP	US6968201	US	22-Nov-2005	06-Oct-2019	09/413036	6-Oct-1999	Method And Apparatus For Controlling Reverse Link Interference Rise And Power Control Instability In A Wireless System	Alcatel-Lucent USA Inc.
80.	Gandhi 4-9-2-3-4-9 (AD)-US-NP	US6944449	US	13-Sep-2005	12-Sep-2022	09/580648	30-May-2000	Method And System For Controlling Access Of A Subscriber Station To A Wireless System	Alcatel-Lucent USA Inc.
81.	Gandhi 6-3-4-8-10 (AD)-US-NP	US6829468	US	07-Dec-2004	05-Mar-2021	09/797708	5-Mar-2001	Reverse-Link Power Control Overshoot Considering Mobile Station Transmission Limitations	Alcatel-Lucent USA Inc.

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82.	Gandhi 8-17-1-6-11-15-34 (AD)-US-NP	US6618598	US	09-Sep-2003	29-Sep-2020	09/676179	29-Sep-2000	Forward Rate Determination Of High Data Rate Channels In CDMA Air Interface	Alcatel-Lucent USA Inc.
83.	Gayde 30-8-12 (RS)-US-NP	US8111818	US	07-Feb-2012	07-Dec-2030	11/614274	21-Dec-2006	Method And System For Processing Calls By Proxy	Alcatel Lucent
84.	Gopalakrishnan 3-2-5-2-14-1-7-13 (N)-US-NP	US6859446	US	22-Feb-2005	11-Sep-2020	09/658084	11-Sep-2000	Integrating Power-Controlled And Rate-Controlled Transmission On A Same Frequency Carrier	Alcatel-Lucent USA Inc.
85.	Greenwald 1-1 (LG)-US-NP	US8352393	US	08-Jan-2013	09-Jan-2030	11/888925	3-Aug-2007	Method And System For Evaluating Tests Used In Operating System Fingerprinting	Alcatel Lucent
86.	Helms 4-3 (HD)-US-NP	US6236315	US	22-May-2001	19-Oct-2019	09/421867	19-Oct-1999	Method And Apparatus For Improving The Interrogation Range Of An RF-Tag	Alcatel-Lucent USA Inc.
87.	Helms 6-5 (HD)-US-CNT		US		01-Oct-2002	09/801519	08-Mar-2001	Method And Apparatus For Improving The Interrogation Range Of An RF-Tag	Alcatel-Lucent USA Inc.
88.	Helms 7 (HD)-US-CIP	US6590498	US	08-Jul-2003	19-Oct-2019	09/999390	31-Oct-2001	Method And Apparatus For Improving The Interrogation Range Of An RF-Tag	Alcatel-Lucent USA Inc.
89.	Helms 5-3-3-16-1-5 (HD)-US-NP	US6643466	US	04-Nov-2003	29-Sep-2020	09/675003	29-Sep-2000	Method And Apparatus For Controlling Signal Power Level In Free Space Communication	Alcatel-Lucent USA Inc.
90.	Holcomb 1-14-4-7 (DP)-US-NP	US6456637	US	24-Sep-2002	28-Nov-2020	09/580094	30-May-2000	Waveguide Lasers And Optical Amplifiers Having Enhanced Thermal Stability	Alcatel-Lucent USA Inc.
91.	Holcomb 3-22-2-16 (DP)-US-NP	US7409128	US	05-Aug-2008	29-Jun-2025	11/169338	29-Jun-2005	Pumping Arrangement For Fiber Amplifiers With Reduced Reflective Feedback	Alcatel-Lucent USA Inc.
92.	Huang 17-8-15-15 (HC)-US-NP	US7359466	US	15-Apr-2008	13-Oct-2022	09/938453	24-Aug-2001	Signal Detection By A Receiver In A Multiple Antenna Time-Dispersive System	Alcatel-Lucent USA Inc.

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93.	Imbesi 2-2-15-1-4-6 (DJ)-US-NP	US6734411	US	11-May-2004	29-Sep-2020	09/675007	29-Sep-2000	Method And Apparatus For Controlling Power Levels Of Optical Signals In Optical Fiber Interconnects	Alcatel-Lucent USA Inc.
94.	Jacobsen 1-16 (N)-US-NP	US7966548	US	21-Jun-2011	20-Apr-2030	11/824408	29-Jun-2007	Method And System For Encoding Data Using Rate-Compatible Irregular LDPC Codes Based On Edge Growth And Parity Splitting	Alcatel-Lucent USA Inc.
95.	Jaques 1-90 (JJ)-US-NP	US6810407	US	26-Oct-2004	14-Jul-2020	09/616107	14-Jul-2000	Optical Boolean Logic Devices	Alcatel-Lucent USA Inc.
96.	Kamel 19-8-13-19 (RE)-US-NP	US6662019	US	09-Dec-2003	21-Dec-2020	09/742613	21-Dec-2000	Power Control And Transmission Rate Parameters Of A Secondary Channel In A Wireless Communication System	Alcatel-Lucent USA Inc.
97.	Kamel 21-8-29-2 (RE)-US-NP	US7583750	US	01-Sep-2009	01-May-2026	10/789086	27-Feb-2004	A METHOD OF DATA BURST TRANSMISSION	Alcatel-Lucent USA Inc.
98.	Kannell 3 (GK)-US-NP	US8041307	US	18-Oct-2011	19-Nov-2029	11/966377	28-Dec-2007	Method Of Controlling Wireless Communications	Alcatel Lucent
99.	Kannell 4 (GK)-US-NP	US7646262	US	12-Jan-2010	28-Dec-2027	11/966343	28-Dec-2007	High Speed Wideband Differential Signal Distribution	Alcatel-Lucent USA Inc.
100.	Kasper 1-17-26 (AL)-US-NP	US7212695	US	01-May-2007	05-Aug-2023	10/634403	5-Aug-2003	Variable Optical Delay Line With A Large Continuous Tuning Range	Alcatel-Lucent USA Inc.
101.	Madsen 27 (CK)-US-NP	US6956991	US	18-Oct-2005	18-Apr-2009	10/634481	05-Aug-2003	Compact, Solid-State Variable Optical Delay Line With A Large Continuous Tuning Range	unavailable
102.	Klein 21-10-30 (TE)-US-NP	US7526291	US	28-Apr-2009	28-Feb-2027	11/133982	20-May-2005	Method And Apparatus For Managing Supplemental Channel Data Rates	Alcatel-Lucent USA Inc.
103.	Kolodner 16-22-23-18-18-20 (PR)-US-NP	US7678495	US	16-Mar-2010	20-Apr-2028	11/047136	31-Jan-2005	Graphitic Nanostructured Battery	Alcatel-Lucent USA Inc.
104.	Kroupenkine 22-23-6-13-19 (TN)-US-NP	US7618746	US	17-Nov-2009	06-Feb-2028	10/803576	18-Mar-2004	Nanostructured Battery Having End Of Life Cells	Alcatel-Lucent USA Inc.

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									And MPhase Technologies, Inc.
105.	Kroupenkine 25-17-16 (TN)-US-NP	US7323033	US	29-Jan-2008	19-Jan-2026	10/835639	30-Apr-2004	Nanostructured Surfaces Having Variable Permeability	Alcatel-Lucent USA Inc.
106.	Krupenkin 45-5-34-22 (TN)-US-CIP	US7695550	US	13-Apr-2010	15-Aug-2026	11/460901	28-Jul-2006	Structured Membrane With Controllable Permeability	Alcatel-Lucent USA Inc. and Mphase Technologies, Inc.
107.	Kumar 11-36-24-6 (S)-US-NP	US6757270	US	29-Jun-2004	11-Jun-2019	09/330582	11-Jun-1999	Low Back Haul Reactivation Delay For High-Speed Packet Data Services In CDMA Systems	Alcatel-Lucent USA Inc.
108.	Kumar 13-37-25-8 (S)-US-NP	US6507572	US	14-Jan-2003	11-Jun-2019	09/332274	11-Jun-1999	Primary Transfer For Simplex Mode Forward-Link High-Speed Packet Data Services In CDMA Systems	Alcatel-Lucent USA Inc.
109.	Kumar 8-27-2 (S)-US-NP	US6418148	US	09-Jul-2002	23-Jul-2018	09/121149	23-Jul-1998	Burst-Level Resource Allocation In Cellular Systems	Alcatel-Lucent USA Inc.
110.	LeGrange 10-9-66 (JD)-US-NP	US5966480	US	12-Oct-1999	23-Feb-2018	09/027630	23-Feb-1998	Article Comprising An Improved Cascaded Optical Fiber Raman Device	Alcatel-Lucent USA Inc.
111.	LeGrange 9-60 (JD)-US-NP	US5898715	US	27-Apr-1999	09-Jun-2017	08/871081	9-Jun-1997	Optical Communication System Comprising A Cladding Pumped Fiber Laser	Alcatel-Lucent USA Inc.
112.	Li 7-28 (P)-US-NP	US7392055	US	24-Jun-2008	03-Oct-2025	10/600714	23-Jun-2003	Methods For Allocating Resources In A Wireless Data System Based On System Loading	Alcatel-Lucent USA Inc.
113.	Mailaender 10-6-1 (LE)-US-NP	US7200631	US	03-Apr-2007	14-Nov-2024	10/340575	10-Jan-2003	Method And Apparatus For Determining An Inverse Square Root Of A Given Positive-Definite Hermitian Matrix	Alcatel-Lucent USA Inc.
114.	Mailaender 11-2-1 (LE)-US-NP	US7167507	US	23-Jan-2007	04-May-2024	10/185747	1-Jul-2002	Equalizer And Method For Performing Equalization In A Wireless Communications System	Alcatel-Lucent USA Inc.

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115.	Mailaender 13 (LE)-US-NP	US7660340	US	09-Feb-2010	13-Nov-2028	10/872359	22-Jun-2004	A Method Of Receiver Processing Of CDMA Signals In A CDMA System	Alcatel-Lucent USA Inc.
116.	Mailaender 15 (LE)-US-NP	US8036257	US	11-Oct-2011	20-Jun-2028	11/418183	5-May-2006	A Method Of Determining At Least One Transmit Mode Parameter For A Multiple-Input Multiple-Output System	Alcatel Lucent
117.	Mailaender 16 (LE)-US-NP	US7667648	US	23-Feb-2010	12-Jun-2027	11/761513	12-Jun-2007	Facilitating Mobile Station Location Using A Ground-Based Cellular Network	Alcatel-Lucent USA Inc.
118.	Maliakal 2 (AJ)-US-NP	US7369396	US	06-May-2008	07-Jul-2025	11/176722	7-Jul-2005	Composite Electroactive Material For Electromechanical Actuators	Alcatel-Lucent USA Inc.
119.	Maliakal 3-1 (AJ)-US-NP	US7714320	US	11-May-2010	01-May-2028	11/257902	25-Oct-2005	Branched Phenylene-Terminated Thiophene Oligomers	Alcatel-Lucent USA Inc.
120.	Maliakal 3-1 (AJ)-US-DIV	US8008116	US	30-Aug-2011	18-Nov-2025	12/700821	5-Feb-2010	Branched Phenylene-Terminated Thiophene Oligomers	Alcatel Lucent
121.	Maliakal 4 (AJ)-US-NP	US8012564	US	06-Sep-2011	09-Jun-2030	11/459584	24-Jul-2006	Nanoparticle Dispersions With Low Aggregation Levels	Alcatel Lucent
122.	810097-US-DIV		US		24-Jul-2026	13/191689	27-Jul-2011	Nanoparticle Dispersions With Low Aggregation Levels	Alcatel Lucent
123.	Maliakal 8 (AJ)-US-NP	US7928638	US	19-Apr-2011	18-Feb-2029	12/165626	30-Jun-2008	Electromechanical Actuators	Alcatel-Lucent USA Inc.
124.	Merboth 3-15-34-8-21 (LJ)-US-NP	US7715861	US	11-May-2010	13-May-2028	11/230153	19-Sep-2005	Method And Apparatus For Reducing Packet Assistent Channel Power Usage	Alcatel-Lucent USA Inc.
125.	Mooney 4-22-38-27 (CF)-US-NP	US7885199	US	08-Feb-2011	10-Aug-2029	11/343771	31-Jan-2006	System And Method For Providing Group Calling In A Wireless Network	Alcatel-Lucent USA Inc.
126.	Moorman 1-1 (JR)-US-NP	US8027250	US	27-Sep-2011	12-Jul-2028	11/064711	24-Feb-2005	A Channel Information Detector, A Method Of Detecting Channel Information And A Communications Node Incorporating The	Alcatel Lucent

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								Detector Or Method	
127.	Nossen 1-2-18 (M)-US-NP	US8363690	US	29-Jan-2013	16-Jun-2030	10/229850	28-Aug-2002	Codeword Synthesizing System And A Correlation System, Methods Of Operation Thereof And A Spread Spectrum Communications Transceiver Employing The Same	Alcatel Lucent
128.	Nye 2 (RA)-US-NP	US7375628	US	20-May-2008	24-Jun-2025	10/852879	25-May-2004	Message Transmission In One Or More Languages Based On One Or More Personal Information Component Inputs	Alcatel-Lucent USA Inc.
129.	Nykolak 11-84-3 (G)-US-NP	US6348684	US	19-Feb-2002	25-Mar-2019	09/276168	25-Mar-1999	Receiving System For Free-Space Optical Communications	Alcatel-Lucent USA Inc.
130.	Nykolak 17 (G)-US-NP	US8412050	US	02-Apr-2013	17-Jul-2031	12/289258	23-Oct-2008	Coaxial Free Space Optical Telescope And Systems Using The Same	Alcatel Lucent
131.	O'Rourke 1-1 (PF)-US-NP	US8413237	US	02-Apr-2013	15-Apr-2030	11/584598	23-Oct-2006	Methods Of Simulating Vulnerability	Alcatel Lucent
132.	Piccirilli 1-75 (AB)-US-NP	US7272319	US	18-Sep-2007	04-Mar-2019	09/262530	4-Mar-1999	System And Method For Secure Multiple Wavelength Communication On Optical Fibers	Alcatel-Lucent USA Inc.
133.	Pidwerbetsky 1-8 (A)-US-NP	US6084530	US	04-Jul-2000	31-Dec-2016	08/777771	31-Dec-1996	Modulated Backscatter Sensor System	Alcatel-Lucent USA Inc.
134.	Pidwerbetsky 2-14 (A)-US-NP	US6046683	US	04-Apr-2000	31-Dec-2016	08/777643	31-Dec-1996	Modulated Backscatter Location System	Alcatel-Lucent USA Inc.
135.	Pidwerbetsky 6 (A)-US-NP	US7610015	US	27-Oct-2009	22-Mar-2027	10/955717	30-Sep-2004	System And Method For Coherent Communication In A Network	Alcatel-Lucent USA Inc.
136.	Pidwerbetsky 7-14 (A)-US-NP	US7009565	US	07-Mar-2006	30-Jul-2024	10/903993	30-Jul-2004	Miniaturized Antennas Based On Negative Permittivity Materials	Alcatel-Lucent USA Inc.

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137.	Pidwerbetsky 9-20 (A)-US-NP	US8081131	US	20-Dec-2011	27-Dec-2029	12/236598	24-Sep-2008	Multi-Polarized Antenna Array	Alcatel Lucent
138.	Romain 3-2 (DM)-US-NP	US7602480	US	13-Oct-2009	23-Nov-2025	11/259501	26-Oct-2005	Method And System For Tracking A Moving Station Or Target In Free Space Communications	Alcatel-Lucent USA Inc.
139.	Stott 2 (DT)-US-NP	US7639668	US	29-Dec-2009	19-Aug-2028	11/141516	31-May-2005	Method For Securing RTS Communications Across Middleboxes	Alcatel-Lucent USA Inc.
140.	Stuart 17 (HR)-US-NP	US7777685	US	17-Aug-2010	08-May-2028	11/540442	29-Sep-2006	Small Spherical Antennas	Alcatel-Lucent USA Inc.
141.	Stuart 19 (HR)-US-NP	US8081114	US	20-Dec-2011	23-Sep-2030	11/938533	12-Nov-2007	Strip-Array Antenna	Alcatel Lucent
142.	Stuart 19 (HR)-US-PSP		US		12-Nov-2007	60/925813	23-Apr-2007	Periodic Surface Radiator	
143.	Thompson 2 (GR)-US-PSP		US		31-Jan-2008	60/936842	22-Jun-2007	Software Diversity Via Context-Free Grammar Transformations: A Language-Theoretic Approach	Alcatel-Lucent USA Inc.
144.	Thompson 2 (GR)-US-NP	US8281290	US	02-Oct-2012	12-Jul-2031	12/010925	31-Jan-2008	Software Diversity Using Context-Free Grammar Transformations	Alcatel Lucent
145.	Vitebsky 26 (S)-US-NP	US7072661	US	04-Jul-2006	07-Sep-2023	10/161182	3-Jun-2002	Wireless Communications System and Related Methods for Allocating Data Transmission	Alcatel-Lucent USA Inc.
146.	Vitebsky 33-20 (S)-US-NP	US7433703	US	07-Oct-2008	06-Apr-2027	11/153924	16-Jun-2005	Method For Allocating Resources In A Wireless Communication System	Alcatel-Lucent USA Inc.
147.	Vitebsky 39-28 (S)-US-NP	US7788566	US	31-Aug-2010	09-Sep-2028	11/334608	18-Jan-2006	System And Method For Dynamically Adjusting Hybrid ARQ Transmissions	Alcatel-Lucent USA Inc.
148.	Vitebsky 41-45 (S)-US-CNT	US8638662	US	28-Jan-2014	28-Nov-2027	13/179924	11-Jul-2011	Method Of Implementing Packet-Based Resource Allocation And Persistent Resource Allocation In A Wireless Communication	Alcatel-Lucent USA Inc.

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								System	
149.	Vitebsky 41-45 (S)-US-NP	US8004977	US	23-Aug-2011	26-Apr-2030	11/946205	28-Nov-2007	Method For Assigning Resources In Wireless Data Networks	Alcatel Lucent
150.	Madsen 27 (CK)-US-NP	US6956991	US	18-Oct-2005	18-Apr-2009	10/634481	05-Aug-2003	Compact, Solid-State Variable Optical Delay Line With A Large Continuous Tuning Range	unavailable
151.	805046-US-NP	US8260142	US	04-Sep-2012	04-Aug-2029	12/459246	29-Jun-2009	Multi-Channel Optical Arrayed Time Buffer	Alcatel Lucent
152.	807018-US-NP		US		08-Mar-2031	13/042730	8-Mar-2011	System And Method For Enabling A Buffer Less Or Substantially Buffer Less Core Network	Alcatel-Lucent USA Inc.
153.	Gill 34 (DM)-US-NP	US8346025	US	01-Jan-2013	24-Oct-2030	12/467867	18-May-2009	Compact Electrooptic Modulator	Alcatel Lucent