

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6368253

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF SECURITY INTEREST

**CONVEYING PARTY DATA**

Name	Execution Date
JEFFERIES FINANCE LLC	10/23/2020

**RECEIVING PARTY DATA**

<b>Name:</b>	RPX CLEARINGHOUSE LLC
<b>Street Address:</b>	FOUR EMBARCADERO CENTER, SUITE 4000
<b>City:</b>	SAN FRANCISCO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94111

**PROPERTY NUMBERS Total: 1079**

Property Type	Number
Patent Number:	RE46113
Patent Number:	5977650
Patent Number:	5991269
Patent Number:	5995368
Patent Number:	6014558
Patent Number:	6037846
Patent Number:	6061241
Patent Number:	6080930
Patent Number:	6092045
Patent Number:	6101539
Patent Number:	6111476
Patent Number:	6137051
Patent Number:	6138097
Patent Number:	6141680
Patent Number:	6141738
Patent Number:	6148285
Patent Number:	6161008
Patent Number:	6166850
Patent Number:	6175671
Patent Number:	6178001

PATENT

<b>Property Type</b>	<b>Number</b>
Patent Number:	6178328
Patent Number:	6182214
Patent Number:	6184717
Patent Number:	6185570
Patent Number:	6195714
Patent Number:	6201873
Patent Number:	6205488
Patent Number:	6212185
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Patent Number:	6233574
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Patent Number:	6246736
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Patent Number:	6247014
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Patent Number:	6253249
Patent Number:	6256512
Patent Number:	6256760
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Patent Number:	6269395
Patent Number:	6271835
Patent Number:	6271952
Patent Number:	6271959
Patent Number:	6272145
Patent Number:	6272209

<b>Property Type</b>	<b>Number</b>
Patent Number:	6272337
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Patent Number:	6275223
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Patent Number:	6278874
Patent Number:	6282194
Patent Number:	6282592
Patent Number:	6286119
Patent Number:	6289063
Patent Number:	6295396
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Patent Number:	6301409
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Patent Number:	6310315
Patent Number:	6311222
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Patent Number:	6324170
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Patent Number:	6327276
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Patent Number:	6327478
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Patent Number:	6327675
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Patent Number:	6330550
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Patent Number:	6331984
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Property Type	Number
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Patent Number:	6345282
Patent Number:	6347006
Patent Number:	6353628
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Patent Number:	6363481
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Patent Number:	6393467
Patent Number:	6396632
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<b>Patent Number:</b>	6404773
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Patent Number:	6487194
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Patent Number:	6490592
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Patent Number:	6493336
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Patent Number:	6539021
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Patent Number:	6545876
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Patent Number:	6581175
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Patent Number:	6584193
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Patent Number:	6590961
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Patent Number:	6594413
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Patent Number:	6601150

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Patent Number:	6647059
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Patent Number:	6647424
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Patent Number:	6650618
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Patent Number:	6650803
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Patent Number:	6657992
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Patent Number:	6658660
Patent Number:	6662208
Patent Number:	6671279
Patent Number:	6671510
Patent Number:	6681012
Patent Number:	6684241
Patent Number:	6691282
Patent Number:	6697970
Patent Number:	6704326
Patent Number:	6721410
Patent Number:	6738354
Patent Number:	6751711
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Patent Number:	6754702
Patent Number:	6757285
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Patent Number:	6778653
Patent Number:	6782079
Patent Number:	6791985
Patent Number:	6792560
Patent Number:	6795555
Patent Number:	6807371

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<b>Patent Number:</b>	6842901
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<b>Patent Number:</b>	6865624
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<b>Patent Number:</b>	6999454
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<b>Patent Number:</b>	7007098
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<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	7034994
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<b>Patent Number:</b>	7039170
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<b>Patent Number:</b>	7043159
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Property Type	Number
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Patent Number:	7092696
Patent Number:	7092727
Patent Number:	7092934
Patent Number:	7095736
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Patent Number:	7142863
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Property Type	Number
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<b>Patent Number:</b>	7218891
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Patent Number:	7738359
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Property Type	Number
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Patent Number:	9432213
Patent Number:	9510406
Application Number:	14322166

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**ATTORNEY DOCKET NUMBER:** 45737-2

**NAME OF SUBMITTER:** SUSAN ZABLOCKI

**SIGNATURE:** /susan zablocki/

**DATE SIGNED:** 10/26/2020

**Total Attachments: 191**

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Release of Lien on Patents

**WHEREAS**, by the (i) Patent Security Agreement dated as of June 19, 2018 by RPX Clearinghouse LLC, as Pledgor, to Jefferies Finance LLC, as Collateral Agent, which Agreement was recorded with the United States Patent and Trademark Office on June 29, 2018 on reel/frame 046485/0644, (ii) Patent Security Agreement dated as of June 19, 2018 by RPX Corporation, as Pledgor, to Jefferies Finance LLC, as Collateral Agent, which Agreement was recorded with the United States Patent and Trademark Office on June 29, 2018 on reel/frame 046486/0433, (iii) Patent Security Agreement dated as of Aug 30, 2018 by RPX Corporation, as Pledgor, to Jefferies Finance LLC, as Collateral Agent, which Agreement was recorded with the United States Patent and Trademark Office on Sep 28, 2018 on reel/frame 047159/0639, (iv) Patent Security Agreement dated as of Nov 30, 2018 by RPX Corporation, as Pledgor, to Jefferies Finance LLC, as Collateral Agent, which Agreement was recorded with the United States Patent and Trademark Office on Dec 13, 2018 on reel/frame 048432/0260, (v) Patent Security Agreement dated as of Feb 4, 2019 by RPX Corporation, as Pledgor, to Jefferies Finance LLC, as Collateral Agent, which Agreement was recorded with the United States Patent and Trademark Office on Feb 19, 2019 on reel/frame 048376/0915, (vi) Patent Security Agreement dated as of Feb 13, 2019 by RPX Corporation, as Pledgor, to Jefferies Finance LLC, as Collateral Agent, which Agreement was recorded with the United States Patent and Trademark Office on Feb 20, 2020 on reel/frame 051975/0640, (vii) Patent Security Agreement dated as of May 14, 2019 by RPX Corporation, as Pledgor, to Jefferies Finance LLC, as Collateral Agent, which Agreement was recorded with the United States Patent and Trademark Office on May 30, 2019 on reel/frame 049316/0927, (viii) Patent Security Agreement dated as of Aug 13, 2019 by RPX Corporation, as Pledgor, to Jefferies Finance LLC, as Collateral Agent, which Agreement was recorded with the United States Patent and Trademark Office on Aug 15, 2019 on reel/frame 050064/0326, and (ix) Patent Security Agreement dated as of Jul 29, 2020 by RPX Corporation, as Pledgor, to Jefferies Finance LLC, as Collateral Agent, which Agreement was recorded with the United States Patent and Trademark Office on Aug 14, 2020 on reel/frame 053498/0095 (clauses (i) through (ix), the “Agreements”) the Pledgors pledged and granted to the Collateral Agent a Lien on and a security interest in all of the right, title and interest of the Pledgors in, to and under all the following Pledged Collateral, in each case excluding Excluded Property (collectively, the “Patent Collateral”): (a) all Patents, including, without limitation, the United States patents and patent applications listed on Schedule A attached hereto, together with any and all (i) rights and privileges arising under applicable Legal Requirements with respect to the use or ownership of any of the foregoing, (ii) inventions, discoveries, designs and improvements described and claimed therein, and (iii) reissues, reexaminations, divisions, renewals, extensions, continuations and continuations in part thereof and amendments thereto; and (b) all Proceeds of any and all of the foregoing;

**WHEREAS**, capitalized terms used but not otherwise defined herein shall have the meanings given to them in the applicable Agreement; delivery of an

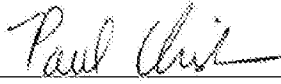
executed copy of this Release of Lien on Patents by facsimile or other electronic means shall be effective as delivery of a manually executed Release of Lien on Patents;

**WHEREAS**, the Pledgors have requested that the Collateral Agent release its Lien on and security interest in the Patent Collateral set forth on Schedule A hereto;

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Collateral Agent hereby terminates, releases and discharges any and all security interests that it has pursuant to the Agreement or any other Loan Document in any and all right, title and interest of the Pledgors in, to and under the Patent Collateral, and reassigns to the applicable Pledgor any and all rights, titles and interests that it may have, in, to and under the Patent Collateral.

**Dated: October 23, 2020**

**JEFFERIES FINANCE LLC, as  
Collateral Agent**

By:   
Name: Paul Chisholm  
Title: Managing Director

*[Signature Page to Patent Release]*

**PATENT  
REEL: 054305 FRAME: 0541**

**SCHEDULE A**

[See attached.]

SCHEDULE 1  
to  
PATENT SECURITY AGREEMENT

UNITED STATES PATENTS AND PATENT APPLICATIONS

Country	Application Number	Filing Date	Patent Number	Issue Date
US	US14825148	8/12/2015	US10007115B2	6/26/2018
US	US15085097	3/30/2016	US10026230B2	7/17/2018
US	US15691602	8/30/2017	US10067737B1	9/4/2018
US	US15393256	12/29/2016	US10089791B2	10/2/2018
US	US15695653	9/5/2017	US10096144B2	10/9/2018
US	US15283163	9/30/2016	US10110883B2	10/23/2018
US	US15691613	8/30/2017	US10127731B1	11/13/2018
US	US15617951	6/8/2017	US10147239B2	12/4/2018
US	US15627286	6/19/2017	US10168778B2	1/1/2019
US	US15468476	3/24/2017	US10187686B2	1/22/2019
US	US15489525	4/17/2017	US10198869B2	2/5/2019
US	US15444115	2/27/2017	US10210663B2	2/19/2019
US	US15659180	7/25/2017	US10212000B1	2/19/2019
US	US15791041	10/23/2017	US10217209B2	2/26/2019
US	US15338049	10/28/2016	US10334240B2	6/25/2019
US	US15625229	6/16/2017	US10347046B2	7/9/2019
US	US15880886	1/26/2018	US10366495B2	7/30/2019
US	US15595607	5/15/2017	US10379345B2	8/13/2019
US	US15600104	5/19/2017	US10387719B2	8/20/2019
US	US15635025	6/27/2017	US10444509B2	10/15/2019
US	US15794729	10/26/2017	US10445937B2	10/15/2019
US	US15404172	1/11/2017	US10481678B2	11/19/2019
US	US15893599	2/10/2018	US10488666B2	11/26/2019
US	US15861401	1/3/2018	US10489975B2	11/26/2019
US	US15807032	11/8/2017	US10564720B2	2/18/2020
US	US15372270	12/7/2016	US10585473B2	3/10/2020
US	US15974998	5/9/2018	US10586395B2	3/10/2020
US	US15466767	3/22/2017	US10592000B2	3/17/2020
US	US15880364	1/25/2018	US10614581B2	4/7/2020
US	US15206111	7/8/2016	US10649209B2	5/12/2020
US	US16238203	1/2/2019	US10652041B2	5/12/2020
US	US15699494	9/8/2017	US10656731B2	5/19/2020
US	US15852190	12/22/2017	US10657798B2	5/19/2020
US	US15807026	11/8/2017	US10660570B2	5/26/2020
US	US15699507	9/8/2017	US10663729B2	5/26/2020
US	US16247194	1/14/2019	US10679337B2	6/9/2020

Country	Application Number	Filing Date	Patent Number	Issue Date
US	US15448391	3/2/2017	US10685489B2	6/16/2020
US	US16254574	1/22/2019	US10686980B1	6/16/2020
US	US16399376	4/30/2019	US10698562B1	6/30/2020
US	US14145338	12/31/2013	US20150185599A1	
US	US14144370	12/30/2013	US20150185825A1	
US	US14144395	12/30/2013	US20150185826A1	
US	US14145182	12/31/2013	US20150187137A1	
US	US14802813	7/17/2015	US20160019708A1	
US	US14467438	8/25/2014	US20160054791A1	
US	US15006843	1/26/2016	US20160224657A1	
US	US15013333	2/2/2016	US20160225191A1	
US	US15018009	2/8/2016	US20160227868A1	
US	US15047172	2/18/2016	US20160247282A1	
US	US15043959	2/15/2016	US20160247324A1	
US	US15047818	2/19/2016	US20160248995A1	
US	US15158482	5/18/2016	US20160341961A1	
US	US15158473	5/18/2016	US20160342782A1	
US	US15159743	5/19/2016	US20160343168A1	
US	US15159746	5/19/2016	US20160343173A1	
US	US14749384	6/24/2015	US20160374616A1	
US	US14870799	9/30/2015	US20170092002A1	
US	US15283215	9/30/2016	US20170092232A1	
US	US15389095	12/22/2016	US20170103581A1	



Country	Application Number	Filing Date	Patent Number	Issue Date
US	US15399529	1/5/2017	US20170193302A1	
US	US15396109	12/30/2016	US20170193705A1	
US	US15476778	3/31/2017	US20170206419A1	
US	US15059129	3/2/2016	US20170251945A1	
US	US15061865	3/4/2016	US20170255450A1	
US	US15073958	3/18/2016	US20170270362A1	
US	US15468470	3/24/2017	US20170277259A1	
US	US15081309	3/25/2016	US20170277559A1	
US	US15089293	4/1/2016	US20170281026A1	
US	US15089345	4/1/2016	US20170286786A1	
US	US15161089	5/20/2016	US20170336220A1	
US	US15162081	5/23/2016	US20170337352A1	
US	US15199794	6/30/2016	US20180005444A1	
US	US15711317	9/21/2017	US20180012364A1	
US	US15243730	8/22/2016	US20180053055A1	
US	US15243715	8/22/2016	US20180053352A1	
US	US15282946	9/30/2016	US20180096530A1	
US	US15282961	9/30/2016	US20180096531A1	
US	US15393255	12/29/2016	US20180190019A1	
US	US15421320	1/31/2017	US20180218545A1	
US	US15464194	3/20/2017	US20180267615A1	
US	US15459921	3/15/2017	US20180268607A1	

Country	Application Number	Filing Date	Patent Number	Issue Date
US	US15483484	4/10/2017	US20180290057A1	
US	US15595657	5/15/2017	US20180332266A1	
US	US15660642	7/26/2017	US20190035152A1	
US	US15692764	8/31/2017	US20190068529A1	
US	US16222275	12/17/2018	US20190124391A1	
US	US16249656	1/16/2019	US20190147663A1	
US	US16596648	10/8/2019	US20200042082A1	
US	US16658078	10/19/2019	US20200049998A1	
US	US16114759	8/28/2018	US20200074670A1	
US	US16114772	8/28/2018	US20200074672A1	
US	US16709787	12/10/2019	US20200183174A1	
US	US10692020	10/22/2003	US7343278B2	3/11/2008
US	US12046389	3/11/2008	US7987079B2	7/26/2011
US	US13345769	1/9/2012	US8384999B1	2/26/2013
US	US13839818	3/15/2013	US9070217B2	6/30/2015
US	US13839968	3/15/2013	US9240075B2	1/19/2016
US	US13840048	3/15/2013	US9262865B2	2/16/2016
US	US14144359	12/30/2013	US9264479B2	2/16/2016
US	US13909042	6/3/2013	US9354702B2	5/31/2016
US	US13908621	6/3/2013	US9383819B2	7/5/2016
US	US14467391	8/25/2014	US9406171B2	8/2/2016
US	US14467428	8/25/2014	US9412205B2	8/9/2016
US	US13840097	3/15/2013	US9495748B2	11/15/2016
US	US13840268	3/15/2013	US9535496B2	1/3/2017
US	US15080414	3/24/2016	US9536355B1	1/3/2017
US	US14461257	8/15/2014	US9558592B2	1/31/2017
US	US14467700	8/25/2014	US9578399B2	2/21/2017
US	US14870900	9/30/2015	US9585581B1	3/7/2017
US	US14870871	9/30/2015	US9599825B1	3/21/2017
US	US13840359	3/15/2013	US9607584B2	3/28/2017
US	US14747043	6/23/2015	US9613462B2	4/4/2017
US	US15158498	5/18/2016	US9619712B2	4/11/2017

Country	Application Number	Filing Date	Patent Number	Issue Date
US	US14477687	9/4/2014	US9625724B2	4/18/2017
US	US14145567	12/31/2013	US9626801B2	4/18/2017
US	US13909046	6/3/2013	US9639984B2	5/2/2017
US	US15052775	2/24/2016	US9652047B2	5/16/2017
US	US14605249	1/26/2015	US9659381B2	5/23/2017
US	US14461252	8/15/2014	US9665985B2	5/30/2017
US	US15041437	2/11/2016	US9672660B2	6/6/2017
US	US15041395	2/11/2016	US9679416B2	6/13/2017
US	US14584855	12/29/2014	US9727977B2	8/8/2017
US	US14802820	7/17/2015	US9754399B2	9/5/2017
US	US14996958	1/15/2016	US9760777B2	9/12/2017
US	US14184523	2/19/2014	US9773349B2	9/26/2017
US	US14461264	8/15/2014	US9799142B2	10/24/2017
US	US14461277	8/15/2014	US9799143B2	10/24/2017
US	US15085084	3/30/2016	US9807383B2	10/31/2017
US	US14966666	12/11/2015	US9824437B2	11/21/2017
US	US14461266	8/15/2014	US9830395B2	11/28/2017
US	US15019031	2/9/2016	US9844119B2	12/12/2017
US	US15394740	12/29/2016	US9858707B2	1/2/2018
US	US15448285	3/2/2017	US9864910B2	1/9/2018
US	US14184294	2/19/2014	US9865058B2	1/9/2018
US	US15199570	6/30/2016	US9865093B1	1/9/2018
US	US14145458	12/31/2013	US9898844B2	2/20/2018
US	US15019382	2/9/2016	US9916664B2	3/13/2018
US	US15199832	6/30/2016	US9934587B2	4/3/2018
US	US14870701	9/30/2015	US9934754B2	4/3/2018
US	US15393257	12/29/2016	US9978174B2	5/22/2018
US	US15159763	5/19/2016	US9984508B2	5/29/2018
US	US15592939	5/11/2017	US9990759B2	6/5/2018
US	US15144545	5/2/2016	US9996155B2	6/12/2018
US	US15171762	6/2/2016	US9996983B2	6/12/2018
US	US29523291	4/8/2015	USD750329S1	2/23/2016
US	US29500344	8/25/2014	USD777379S1	1/24/2017
US	US29524965	4/24/2015	USD777381S1	1/24/2017
US	US29579579	9/30/2016	USD800727S1	10/24/2017
US	US29579642	9/30/2016	USD801587S1	10/31/2017
US	US29600418	4/12/2017	USD820318S1	6/12/2018
US	US29601400	4/21/2017	USD820319S1	6/12/2018
US	US29579603	9/30/2016	USD850444S1	6/4/2019
AT	3796236	10/22/2003	AT521953T	9/15/2011
AU	2003298491	10/22/2003	AU2003298491A1	5/13/2004
AU	2014235369	3/12/2014	AU2014235369B2	2/2/2017
AU	2014235416	3/12/2014	AU2014235416B2	4/13/2017

Country	Application Number	Filing Date	Patent Number	Issue Date
AU	2014235427	3/12/2014	AU2014235427B2	7/7/2016
AU	AU2014235442	3/12/2014	AU2014235442B2	9/22/2016
AU	AU2014235484	3/12/2014	AU2014235484B2	10/12/2017
AU	AU2014275184	6/2/2014	AU2014275184B2	6/23/2016
AU	2014275189	6/2/2014	AU2014275189B2	12/22/2016
AU	2014275191	6/2/2014	AU2014275191B2	8/24/2017
AU	2015301620	8/13/2015	AU2015301620A1	2/23/2017
EP	3796236	10/22/2003	EP1556805B1	8/24/2011
EP	14769352	3/12/2014	EP2972950B1	7/25/2018
EP	14770915	3/12/2014	EP2972952A4	7/13/2016
EP	EP14768345	3/12/2014	EP2973355B1	10/4/2017
EP	EP14770112	3/12/2014	EP2973356A4	7/20/2016
EP	EP14769648	3/12/2014	EP2974338A4	7/27/2016
EP	14808371	6/2/2014	EP3005037A4	2/8/2017
EP	14807097	6/2/2014	EP3005682A4	2/8/2017
EP	14807284	6/2/2014	EP3005683A4	1/18/2017
EP	EP14876352	12/17/2014	EP3090332A1	11/9/2016
EP	14875991	12/10/2014	EP3090409A4	8/23/2017
EP	14876769	12/17/2014	EP3090411A4	8/9/2017
EP	14876065	12/15/2014	EP3090423A4	9/6/2017
EP	14876870	12/12/2014	EP3090424A4	7/26/2017
EP	EP14876959	12/15/2014	EP3090425A4	7/12/2017
EP	14876622	12/17/2014	EP3090431A4	5/31/2017
EP	15752367	2/18/2015	EP3108288A4	9/27/2017
EP	15752437	2/18/2015	EP3108457A4	9/6/2017
EP	15832547	8/13/2015	EP3180677A4	3/14/2018
EP	15836115	8/21/2015	EP3194888A4	4/4/2018
EP	EP19163859	3/19/2019	EP3543840A1	9/25/2019
JP	2015003959	2/25/2015	JP1546373S	3/22/2016
JP	2015019327	2/25/2015	JP1546413S	3/22/2016
JP	2015019328	2/25/2015	JP1546414S	3/22/2016
JP	2015019331	2/25/2015	JP1546415S	3/22/2016
JP	2015019330	2/25/2015	JP1552463S	6/20/2016
JP	2015019329	2/25/2015	JP1553334S	7/4/2016
JP	2004546322	10/22/2003	JP2006507722A	3/2/2006
JP	2016501599	3/12/2014	JP2016514865A	5/23/2016
JP	JP2016501589	3/12/2014	JP2016521391A	7/21/2016
JP	2017507771	8/13/2015	JP2017531848A	10/26/2017
JP	JP2016518381	6/2/2014	JP5985116B1	9/6/2016
JP	JP2016501621	3/12/2014	JP6013642B2	10/25/2016
JP	2016501608	3/12/2014	JP6022732B2	11/9/2016
JP	2016501635	3/12/2014	JP6190035B2	8/30/2017
JP	2016518384	6/2/2014	JP6192817B2	9/6/2017

Country	Application Number	Filing Date	Patent Number	Issue Date
KR	KR20157029846	3/12/2014	KR101667899B1	10/19/2016
KR	20157037131	6/2/2014	KR101694089B1	1/6/2017
KR	KR20157037170	6/2/2014	KR101730759B1	5/11/2017
KR	20157029855	3/12/2014	KR101732839B1	5/4/2017
KR	20157029881	3/12/2014	KR101737725B1	5/18/2017
KR	20157029875	3/12/2014	KR101759415B1	7/18/2017
KR	20157037217	6/2/2014	KR101803168B1	11/29/2017
KR	KR20157029890	3/12/2014	KR20150130558A	11/23/2015
KR	20177006975	8/13/2015	KR20170041905A	4/17/2017
NZ	53963203	10/22/2003	NZ539632A	1/31/2008
NZ	NZ71328614	3/12/2014	NZ713286A	2/23/2018
NZ	NZ71329214	3/12/2014	NZ713292A	4/28/2017
NZ	71329414	3/12/2014	NZ713294A	2/24/2017
NZ	71331114	3/12/2014	NZ713311A	10/27/2017
NZ	71523214	6/2/2014	NZ715232A	2/23/2018
WO	306418	10/22/2003	WO2004038657A3	12/29/2004
WO	US2014024625	3/12/2014	WO2014150947A1	9/25/2014
WO	2014024670	3/12/2014	WO2014150969A1	9/25/2014
WO	US2014024698	3/12/2014	WO2014150980A1	9/25/2014
WO	US2014024728	3/12/2014	WO2014150995A1	9/25/2014
WO	2014024765	3/12/2014	WO2014151015A1	9/25/2014
WO	2014024796	3/12/2014	WO2014151031A3	11/13/2014
WO	2014040538	6/2/2014	WO2014197387A1	12/11/2014
WO	2014040552	6/2/2014	WO2014197392A1	12/11/2014
WO	2014040555	6/2/2014	WO2014197394A1	12/11/2014
WO	2014069536	12/10/2014	WO2015102834A1	7/9/2015
WO	2014070090	12/12/2014	WO2015102854A1	7/9/2015
WO	2014070298	12/15/2014	WO2015102862A1	7/9/2015
WO	2014070342	12/15/2014	WO2015102866A1	7/9/2015
WO	US2014070814	12/17/2014	WO2015102903A1	7/9/2015
WO	2014070823	12/17/2014	WO2015102904A1	7/9/2015
WO	2014070865	12/17/2014	WO2015102908A1	7/9/2015
WO	2015016375	2/18/2015	WO2015126939A1	8/27/2015
WO	2015016389	2/18/2015	WO2015126951A1	8/27/2015
WO	2015045018	8/13/2015	WO2016025691A1	2/18/2016
WO	2015045029	8/13/2015	WO2016025697A1	2/18/2016
WO	2015045084	8/13/2015	WO2016025732A1	2/18/2016
WO	2015045233	8/14/2015	WO2016025808A1	2/18/2016
WO	US2015045238	8/14/2015	WO2016025811A3	8/11/2016
WO	2015046269	8/21/2015	WO2016032886A1	3/3/2016
WO	2015046282	8/21/2015	WO2016032889A1	3/3/2016
WO	2015046289	8/21/2015	WO2016032892A1	3/3/2016
WO	2015046321	8/21/2015	WO2016032899A1	3/3/2016

Country	Application Number	Filing Date	Patent Number	Issue Date
WO	2015047683	8/31/2015	WO2016036645A1	3/10/2016
WO	2015066643	12/18/2015	WO2016109250A1	7/7/2016
WO	2016014453	1/22/2016	WO2016122973A1	8/4/2016
WO	2016015079	1/27/2016	WO2016123193A1	8/4/2016
WO	2016016117	2/2/2016	WO2016126672A1	8/11/2016
WO	2016016963	2/8/2016	WO2016130462A1	8/18/2016
WO	2016017133	2/9/2016	WO2016130533A1	8/18/2016
WO	2016018639	2/19/2016	WO2016134237A1	8/25/2016
WO	2016018647	2/19/2016	WO2016134241A1	8/25/2016
WO	2016019418	2/24/2016	WO2016138178A1	9/1/2016
WO	2016017974	2/15/2016	WO2016153628A3	12/22/2016
WO	2016033145	5/18/2016	WO2016187348A1	11/24/2016
WO	2016033148	5/18/2016	WO2016187351A1	11/24/2016
WO	2016033149	5/18/2016	WO2016187352A1	11/24/2016
WO	US2016033365	5/19/2016	WO2016187474A1	11/24/2016
WO	2016033368	5/19/2016	WO2016187477A1	11/24/2016
WO	2016033375	5/19/2016	WO2016187483A1	11/24/2016
WO	2016033144	5/18/2016	WO2016209435A1	12/29/2016
WO	2016041588	7/8/2016	WO2017027139A1	2/16/2017
WO	2016054545	9/29/2016	WO2017059137A1	4/6/2017
WO	US2016054555	9/29/2016	WO2017059144A1	4/6/2017
WO	US2016055038	9/30/2016	WO2017059379A1	4/6/2017
WO	2016055051	9/30/2016	WO2017059386A1	4/6/2017
WO	2016065943	12/9/2016	WO2017100654A1	6/15/2017
WO	2016069302	12/29/2016	WO2017117446A1	7/6/2017
WO	2016069572	12/30/2016	WO2017117562A1	7/6/2017
WO	2017012372	1/5/2017	WO2017120363A1	7/13/2017
WO	2017041228	7/7/2017	WO2018009885A1	1/11/2018
DE	14769352	3/12/2014	EP2972950B1	7/25/2018
FR	14769352	3/12/2014	EP2972950B1	7/25/2018
DE	EP14768345	3/12/2014	EP2973355B1	10/4/2017
FR	EP14768345	3/12/2014	EP2973355B1	10/4/2017
US	US62/273006	12/30/2015		
US	US60/420638	10/22/2002		
US	US62/110932			
US	US62/273612	12/31/2015		
US	US62/118337			
US	US62/164192	5/20/2015		
US	US62/118360	2/19/2015		
US	US62/441219			
US	US62/120808			
US	US62/235018	9/30/2015		
US	US62/163030	5/18/2015		

Country	Application Number	Filing Date	Patent Number	Issue Date
US	US62/339748	5/20/2016		
US	US62/163037			
US	US62/025916	7/17/2014		
US	US62/110259			
US	US62/442407			
US	US62/312813	3/24/2016		
US	US62/164276	5/20/2015		
US	US62/355112	6/27/2016		
US	US62/235114	9/30/2015		
US	US62/488538			
US	US62/395226	9/15/2016		
US	US62/312823	3/24/2016		
US	US60/513725	10/22/2003		
US	US62/114175	2/10/2015		
US	US62/275009	1/5/2016		
US	US62/163046	5/18/2015		
JP	JP2006507722	10/22/2003		
US	US62/441249	12/31/2016		
US	US62/352484	6/20/2016		
US	US62/164177	5/20/2015		
US	US16/877490			
US	US62/114195			
US	US62/777474	12/10/2018		
US	US62/790458	1/9/2019		
WO	PCT/US03/34292			
US	US16/739103	1/9/2020		
WO	PCT/US2020/014114	1/17/2020		
US	US16/899398	6/11/2020		
US	US16/414696	1/16/2019		
US	US62/120776	2/25/2015		
US	US16/845018			
JP	JP20160518383	6/2/2014		
US	US10366033	2/12/2003	US7257530B2	8/14/2007
US	US60360247	2/27/2002		
US	63014266	4/23/2020		
US	63015552	4/25/2020		
US	63015554	4/25/2020		
US	63015555	4/25/2020		
US	63015556	4/25/2020		

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UNITED STATES PATENTS AND PATENT APPLICATIONS

Asset status	Country	Application number	Filing date	Patent Number	Issue date
GRANTED	US	US09999796	10/31/2001	US6766482B1	7/20/2004
GRANTED	US	US10251140	9/20/2002	US6990592B2	1/24/2006
GRANTED	US	US10871297	6/17/2004	US7003705B1	2/21/2006
GRANTED	US	US10160141	5/31/2002	US7245619B1	7/17/2007
GRANTED	US	US10071873	2/8/2002	US6892309B2	5/10/2005
EXPIRED	AU	2003216136	1/31/2003	AU2003216136A1	9/2/2003
EXPIRED	WO	302881	1/31/2003	WO03067372A2	8/14/2003
GRANTED	US	US12635847	12/11/2009	US8090351B2	1/3/2012
GRANTED	US	US13393003	9/1/2010	US8700003B2	4/15/2014
EXPIRED	US	US61/275603	9/1/2009		
EXPIRED	CA	2772649	9/1/2010	CA2772649A1	3/10/2011
EXPIRED	EP	10814415	9/1/2010	EP2473967A2	7/11/2012
EXPIRED	JP	2012527112	9/1/2010	JP2013504101A	2/4/2013
EXPIRED	KR	20127008579	9/1/2010	KR20120069703A	6/28/2012
EXPIRED	WO	2010047503	9/1/2010	WO2011028785A2	3/10/2011

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UNITED STATES PATENTS AND PATENT APPLICATIONS

<b>Asset status</b>	<b>Country</b>	<b>Application number</b>	<b>Filing date</b>	<b>Patent Number</b>	<b>Issue date</b>
<b>GRANTED</b>	US	US12609556	10/30/2009	US8213424B2	7/3/2012
<b>GRANTED</b>	US	US09956466	9/20/2001	US7061896B2	6/13/2006
<b>GRANTED</b>	US	US13167315	6/23/2011	US8971327B2	3/3/2015
<b>GRANTED</b>	US	US13167295	6/23/2011	US9515915B2	12/6/2016
<b>GRANTED</b>	US	US11419286	5/19/2006	US7616599B2	11/10/2009
<b>GRANTED</b>	US	US15367291	12/2/2016	US10212077B2	2/19/2019
<b>PENDING</b>	US	16/277577	2/15/2019	US16/277577	
<b>EXPIRED</b>	US	60/234167	9/20/2000	US60/234167	
<b>GRANTED</b>	US	US13313022	12/7/2011	US9743340B2	8/22/2017
<b>GRANTED</b>	US	US11475545	6/27/2006	US7362716B2	4/22/2008
<b>ABANDONED</b>	US	US12039746	2/29/2008	US8077735B1	12/13/2011
<b>GRANTED</b>	US	US10086182	2/26/2002	US7068610B2	6/27/2006
<b>GRANTED</b>	US	US14987381	1/4/2016	US9730146B2	8/8/2017
<b>PENDING</b>	US	15/666487	8/1/2017	US15/666487	
<b>GRANTED</b>	US	US16033335	7/12/2018	US10176243B1	1/8/2019

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UNITED STATES PATENTS AND PATENT APPLICATIONS

Country	Application	Filing Date	Patent Number	Issue Date
US	US61625830	5/29/2012		
US	US13905115	5/29/2013	US9959513B2	5/1/2018
US	US15927919	3/21/2018		
CA	2873213	12/3/2014	CA2873213A1	6/3/2015
EP	13796359	5/29/2013	EP2856395A1	4/8/2015
WO	2.013E+09	5/29/2013	WO2013177710A1	12/5/2013
US	US61911431	12/3/2013		
US	US15170888	6/1/2016		
US	US14559887	12/3/2014	US10181106B2	1/15/2019
US	US16239428	1/3/2019		
US	US16546257	8/20/2019		
US	US14035588	9/24/2013	US9562769B2	2/7/2017
US	US13626440	9/25/2012	US8521419B2	8/27/2013
US	US13301434	11/21/2011	US8560222B2	10/15/2013
US	US12665829	6/5/2008	US8392118B2	3/5/2013
CA	2592653	6/21/2007	CA2592653A1	12/21/2008
CA	2607192	10/10/2007	CA2607192A1	4/10/2009
CA	2691878	6/5/2008	CA2691878C	11/16/2010
WO	2.008E+09	6/5/2008	WO2008154727A1	12/24/2008

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to  
PATENT SECURITY AGREEMENT

UNITED STATES PATENTS AND PATENT APPLICATIONS

Asset status	Country	Application number	Filing date	Patent Number	Issue date
GRANTED	US	US11702912	2/6/2007	US7739237B2	6/15/2010
GRANTED	US	US10664418	9/17/2003	US7177866B2	2/13/2007
GRANTED	US	US10112129	3/29/2002	US7103586B2	9/5/2006
GRANTED	US	US09810674	3/16/2001	US6662196B2	12/9/2003
EXPIRED	US	US60/411774	7/17/2002	USUS60/411774	
EXPIRED	CA	2375376	3/11/2002	CA2375376A1	9/16/2002
EXPIRED	CA	2423153	3/24/2003	CA2423153A1	9/29/2003
EXPIRED	EP	2005562	3/12/2002	EP1241592A2	9/18/2002
EXPIRED	EP	3006626	3/25/2003	EP1349085A2	10/1/2003
GRANTED	US	US10317026	2/10/2002	US7003531B2	2/21/2006
GRANTED	US	US09930641	8/15/2001	US6745209B2	6/1/2004
GRANTED	US	US10853086	5/25/2004	US7321904B2	1/22/2008
GRANTED	US	US11970967	1/8/2008	US7882062B2	2/1/2011
GRANTED	US	US11970963	1/8/2008	US7853561B2	12/14/2010
EXPIRED	CA	2397393	8/9/2002	CA2397393A1	2/15/2003
EXPIRED	EP	2017282	8/1/2002	EP1288796A2	3/5/2003
GRANTED	US	US12483849	6/12/2009	US8301593B2	10/30/2012
GRANTED	US	US12707322	2/17/2010	US7962458B2	6/14/2011
EXPIRED	US	US61/061040	6/12/2008	USUS61/061040	
EXPIRED	US	US61/098509	9/19/2008	USUS61/098509	
EXPIRED	US	US61/208273	2/20/2009	USUS61/208273	
GRANTED	US	US14962483	12/8/2015	US9569473B1	2/14/2017
GRANTED	US	US14942481	11/16/2015	US9904721B1	2/27/2018
EXPIRED	US	US61/756831US61/756831	1/25/2013	USUS61/756831US61/756831	
ABANDONED	US	US14/163362	1/24/2014	USUS14/163362	
PENDING	US	US15/903694	2/23/2018	USUS15/903694	
GRANTED	US	US14962475	12/8/2015	US10025845B1	7/17/2018
GRANTED	US	US14962480	12/8/2015	US10025946B1	7/17/2018
PENDING	US	US16/033821	7/12/2018	USUS16/033821	
GRANTED	US	US16033335	7/12/2018	US10176243B1	1/8/2019

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UNITED STATES PATENTS AND PATENT APPLICATIONS

Asset status	Country	Application number	Filing date	Patent Number	Issue date
EXPIRED	US	US10336704	1/2/2003	US6889249B2	5/3/2005
GRANTED	US	US10336835	1/2/2003	US7383288B2	6/3/2008
EXPIRED	US	US10336834	1/2/2003	US7509322B2	3/24/2009
EXPIRED	US	US10336832	1/2/2003	US7512673B2	3/31/2009
GRANTED	US	US10043413	1/10/2002	US7562110B2	7/14/2009
GRANTED	US	US10336784	1/2/2003	US7788335B2	8/31/2010
GRANTED	US	US12468186	5/19/2009	US8005953B2	8/23/2011
GRANTED	US	US12268718	11/11/2008	US8117244B2	2/14/2012
EXPIRED	US	US12268601	11/11/2008	US8180747B2	5/15/2012
GRANTED	US	US12104197	4/16/2008	US8195760B2	6/5/2012
GRANTED	US	US12414415	3/30/2009	US8195769B2	6/5/2012
GRANTED	US	US11072892	3/3/2005	US8239354B2	8/7/2012
EXPIRED	US	US11285677	11/21/2005	US8396895B2	3/12/2013
GRANTED	US	US12408356	3/20/2009	US8417681B1	4/9/2013
GRANTED	US	US12268573	11/11/2008	US8548953B2	10/1/2013
GRANTED	US	US12126129	5/23/2008	US8682916B2	3/25/2014
EXPIRED	US	US11724107	3/14/2007	USRE43346E1	5/1/2012
EXPIRED	US	60/261153	1/11/2001	US60/261153	

EXPIRED	US	US13278598	10/21/2011		
EXPIRED	US	US12481086	6/9/2009		
EXPIRED	US	US10336833	1/2/2003		
EXPIRED	US	60/923765	4/16/2007	US60/923765	
EXPIRED	US	12/103989	4/16/2008	US12/103989	
EXPIRED	US	60/940104	5/25/2007	US60/940104	
EXPIRED	US	60/987161	11/12/2007	US60/987161	
EXPIRED	US	60/987165	11/12/2007	US60/987165	
EXPIRED	US	60/987170	11/12/2007	US60/987170	
EXPIRED	US	60/987174	11/12/2007	US60/987174	
EXPIRED	US	60/987181	11/12/2007	US60/987181	
EXPIRED	US	60/987194	11/12/2007	US60/987194	
EXPIRED	US	12/268609	11/11/2008	US12/268609	
EXPIRED	US	60/987197	11/12/2007	US60/987197	
EXPIRED	US	60/987206	11/12/2007	US60/987206	
EXPIRED	US	60/988269	11/15/2007	US60/988269	
EXPIRED	US	60/988306	11/15/2007	US60/988306	
EXPIRED	US	12/268575	11/11/2008	US12/268575	
GRANTED	US	US14982236	12/29/2015	US9787896B2	10/10/2017
GRANTED	US	US14982191	12/29/2015	US9843725B2	12/12/2017
GRANTED	US	US15194860	6/28/2016	US9881647B2	1/30/2018
GRANTED	US	US15007599	1/27/2016	US9883159B2	1/30/2018
GRANTED	US	US15050918	2/23/2016	US9992400B2	6/5/2018
PENDING	US	US15872344	1/16/2018		

PENDING	US	US15693794	9/1/2017		
PENDING	US	US15842040	12/14/2017		
PENDING	US	US15844786	12/18/2017		
PENDING	US	US15093121	4/7/2016		
PENDING	US	US15148044	5/6/2016		
PENDING	US	US15166865	5/27/2016		
GRANTED	US	US13096249	4/28/2011	US9305553B2	4/5/2016
GRANTED	US	US12105153	4/17/2008	US8503665B1	8/6/2013
EXPIRED	US	60/912562	4/18/2007	US60/912562	
EXPIRED	US	60/912570	4/18/2007	US60/912570	
EXPIRED	US	60/912572	4/18/2007	US60/912572	
EXPIRED	US	60/969065	8/30/2007	US60/969065	
EXPIRED	US	12/105124	4/17/2008	US12/105124	
EXPIRED	US	13/913133	6/7/2013	US13/913133	
EXPIRED	US	61/238747	4/28/2010	US61/238747	

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UNITED STATES PATENTS AND PATENT APPLICATIONS

United States Patents:

Asset status	Country	Application number	Filing date	Patent Number	Issue date	Title
GRANTED	US	US14815208	07/31/2015	US10004996B2	06/26/2018	Radio controller system and method for remote devices
GRANTED	US	US10356527	02/03/2003	US7529374B2	05/05/2009	Method and apparatus for encrypting data
GRANTED	US	US11181621	07/13/2005	US7254837B2	08/07/2007	Apparatus and method for storing and distributing encrypted digital content
GRANTED	US	US11181608	07/13/2005	US7237268B2	06/26/2007	Apparatus and method for storing and distributing encrypted digital content and functionality suite associated therewith
EXPIRED	US	US60/587531	07/13/2004	USUS60/587531		No title available
EXPIRED	US	US60/587529	07/13/2004	USUS60/587529		No title available
GRANTED	US	US10820790	04/09/2004	US8127359B2	02/28/2012	Systems and methods for real-time network-based vulnerability assessment
GRANTED	US	US13350738	01/14/2012	US9537876B2	01/03/2017	Method and apparatus for detecting vulnerability status of a target
GRANTED	US	US13732453	01/02/2013	US8789193B2	07/22/2014	Method and apparatus for detecting events

						pertaining to potential change in vulnerability status
PENDING	US	US15396698	01/02/2017			Method and Apparatus for Detecting a Change in Security Status of a Target
EXPIRED	US	US60/461818	04/11/2003	USUS60/461818		System for security assurance of network services via real-time tracking, vulnerability assessment, auto-fixing and a method thereof
GRANTED	US	US09677569	10/02/2000	US7162426B1	01/09/2007	Computer motherboard architecture with integrated DSP for continuous and command and control speech processing
GRANTED	US	US09879777	06/12/2001	US6958905B2	10/25/2005	Mobile body-supported computer with battery
EXPIRED	US	US09550133	04/17/2000	US6262889B1	07/17/2001	Insulated mobile computer
GRANTED	US	US09544037	04/06/2000	US6690351B1	02/10/2004	Computer display optimizer
EXPIRED	US	US08861598	05/22/1997	US5844824A	12/01/1998	Hands-free, portable computer and system
EXPIRED	US	US09092261	06/05/1998	US6304459B1	10/16/2001	Mobile computer
EXPIRED	US	US07863619	04/06/1992	US5305244A	04/19/1994	Hands-free, user-supported portable computer
EXPIRED	US	US08698319	08/15/1996	US5719743A	02/17/1998	Torso worn computer which



						can stand alone
EXPIRED	US	US08705248	08/29/1996	US5719744A	02/17/1998	Torso-worn computer without a monitor
EXPIRED	US	US0877926	01/06/1997 5	US5757339A	05/26/1998	Head mounted display
EXPIRED	US	US08745013	11/07/1996	US5844656A	12/01/1998	Head mounted display with adjustment components
EXPIRED	US	US08705247	08/29/1996	US5948047A	09/07/1999	Detachable computer structure
EXPIRED	US	US09009206	01/20/1998	US5999952A	12/07/1999	Core computer unit
EXPIRED	US	US08911642	08/15/1997	US6029183A	02/22/2000	Transferable core computer
GRANTED	US	US09294668	04/19/1999	US6157533A	12/05/2000	Modular wearable computer
GRANTED	US	US09457831	12/09/1999	US6235420B1	05/22/2001	Hot swappable battery holder
GRANTED	US	US09160849	09/25/1998	US6301593B1	10/09/2001	Mobile computer with audio interrupt system
EXPIRED	US	US09455642	12/07/1999	US6351388B1	02/26/2002	Mobile computer with PC housing for PC card and dongle
GRANTED	US	US09749168	12/27/200	US6359777B1	03/19/2002	Removable component structure for a mobile computer
GRANTED	US	US09825410	04/03/2001	US6421232B2	07/16/2002	Dual FPD and thin client
EXPIRED	US	US09645843	08/24/2000	US6434011B1	08/13/2002	PCMCIA compartment
EXPIRED	US	US09883877	06/18/2001	US6449892B1	09/17/2002	Smart weapon

EXPIRED	US	US09832263	04/10/2001	US6507486B2	01/14/2003	Wearable computer and garment system
EXPIRED	US	US09932591	08/17/2001	US6529372B1	03/04/2003	Wearable computer battery system -
EXPIRED	US	US09461870	12/15/1999	US6532482B1	03/11/2003	Mobile computer with audio interrupt system
EXPIRED	US	US09850929	05/08/2001	US6552899B2	04/22/2003	Mobile computer
EXPIRED	US	US09884242	06/19/2001	US6583982B2	06/24/2003	Intrinsically safe enclosure and method
EXPIRED	US	US09727061	11/30/2000	US6633820B2	10/14/2003	System for assessing metal deterioration on maritime vessels
GRANTED	US	US09583508	05/31/2000	US6668318B1	12/23/2003	System and method for loading one of a plurality of operating systems and adjusting the operating frequency accordingly using transferable core computer that recognizes a system environment
EXPIRED	US	US10092133	03/06/2002	US6757156B2	06/29/2004	Ergonomic hand held display
GRANTED	US	US09752653	01/02/2001	US6798391B2	09/28/2004	Wearable computer system
GRANTED	US	US10868561	06/15/2004	US6937464B2	08/30/2005	Ergonomic hand held display
EXPIRED	US	US09858082	05/15/2001	US7065381B2	06/20/2006	Personal communicator

EXPIRED	US	US09976768	10/12/2001	USRE42168E1	02/22/2011	Core computer unit
ABANDONED	US	US09843423	04/25/2001			Wireless pen input device
ABANDONED	US	US10004064	11/14/2001			Computer with audio interrupt system
ABANDONED	US	US09725277	11/29/2000			Digital projection system for phones and personal digital assistants
ABANDONED	US	US09738113	12/18/2000			Secure USB port and connector for wearable and portable computers
ABANDONED	US	US09761490	01/16/2001			Body worn display system
EXPIRED	US	US10097798	03/13/2002			Video camera system
ABANDONED	US	US09883788	06/18/2001			Heat dissipation system
ABANDONED	US	US09894091	06/28/2001			Mobile holster
ABANDONED	US	US10086166	02/26/2002			Display system
ABANDONED	US	US09732814	12/08/2000			System and method of accessing and recording messages at coordinate way points
ABANDONED	US	US10374378	02/26/2003			Core computer system
ABANDONED	US	US10126367	04/19/2002			Mobile docking station
ABANDONED	US	US10601902	06/23/2003			Intrinsically safe computer

ABANDONED	US	US09784496	02/15/2001			System for delivering news
ABANDONED	US	US10464685	06/18/2003			Maintenance and inspection system and method
ABANDONED	US	US10947581	09/22/2004			Wearable computer system
ABANDONED	US	US11086394	03/22/2005			Maintenance and inspection system
ABANDONED	US	US10784386	02/23/2004			Portable communication system
ABANDONED	US	US11148711	06/09/2005			Core computer system
ABANDONED	US	US11077402	03/10/2005			Field interview kit
EXPIRED	US	US09/126506	07/30/1998	USUS09/126506		No title available
EXPIRED	US	US08/975964	11/21/1997	USUS08/975964		No title available
EXPIRED	US	US09592086	06/12/2000	US7711599B1	05/04/2010	Apparatus for preparing client communications involving financial products and services
EXPIRED	US	US14286777	05/23/2014	US20140257948A1		System, method, and computer program product for selecting and presenting financial products and services
EXPIRED	US	US14267783	05/01/2014	US20140316909A1		System and method for automated generation of communications involving products or services
EXPIRED	US	US11772119	06/30/2007	US7778867B2	08/17/2010	System and method for

						automated execution, reporting, and sales
analysis						
EXPIRED	US	US11182386	07/15/2005	US8234184B2	07/31/2012	Automated reply generation direct marketing system
GRANTED	US	US11618366	12/29/2006	US7856375B2	12/21/2010	Customized communication document creation system and method
GRANTED	US	US11741225	04/27/2007	US7860744B2	12/28/2010	System and method for automatically providing personalized notices concerning financial products and/or services
GRANTED	US	US11615622	12/22/2006	US7890366B2	02/15/2011	Personalized communication documents, system and method for preparing same
GRANTED	US	US11737735	04/19/2007	US7991649B2	08/02/2011	Method for automatically preparing a plurality of client communications offering one or more financial products or services
EXPIRED	US	US11772120	06/30/2007	US8019644B2	09/13/2011	System and method for automated processing of new products and services
EXPIRED	US	US11754088	05/25/2007	US8073735B2	12/06/2011	System and method for automating financial document

						compliance
EXPIRED	US	US13441799	04/06/2012	US8352317B2	01/08/2013	System for facilitating production of variable offer communications
EXPIRED	US	US13191428	07/26/2011	US8458052B2	06/04/2013	System and method for automated generation of communications involving products or services
EXPIRED	US	US14101212	12/09/2013	US8738435B2	05/27/2014	Method and apparatus for presenting personalized content relating to offered products and services
EXPIRED	US	US08661004	06/10/1996	US5987434A	11/16/1999	Apparatus and method for transacting marketing and sales of financial products
EXPIRED	US	US08834240	04/15/1997	US6076072A	06/13/2000	Method and apparatus for preparing client communications involving financial products and services
EXPIRED	US	US09354802	07/16/1999	US6999938B1	02/14/2006	Automated reply generation direct marketing system
EXPIRED	US	US10406636	04/04/2003	US7774230B2	08/10/2010	System, method, and computer program product for selecting and presenting financial products and services
EXPIRED	US	US13191437	07/26/2011	US8175934B2	05/08/2012	System and method for

						automated generation of communications involving products or services
EXPIRED	US	US 12853261	08/09/2010	US8606632B2	12/10/2013	System, method, and computer program product for selecting and presenting financial products and services
EXPIRED	US	US13560123	07/27/2012	US8719114B2	05/06/2014	System and method for automated generation of communications involving products or services

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UNITED STATES PATENTS AND PATENT APPLICATIONS

United States Patents:

Owner	Title	Country	Application No.	Filing Date	Patent / Publication No.	Issue Date	Patent Status
RPX Corporation	Email link rewriting with verification of link destination	United States of America	14/170609	02/01/2014	US8904168B1	12/02/2014	Granted
RPX Corporation	Email verification of link destination	United States of America	14/557245	12/01/2014	US9325727B1	04/26/2016	Granted
RPX Corporation	Syndication methodology to dynamically place digital assets on non-related web sites	United States of America	12/902326	10/12/2010	US8166522B2	04/24/2012	Granted
RPX Corporation	Antenna system with individually addressable elements in dense array	United States of America	14/327055	07/09/2014	US9538253	01/03/2017	Granted
RPX Corporation	Video viewing system with video fragment location	United States of America	14/631650	02/25/2015	US9661254B2	05/23/2017	Granted
RPX Corporation	Radio controller system and method for remote devices	United States of America	13/590656	08/21/2012	US8600304B2	12/03/2013	Granted
RPX Corporation	Radio controller system and method for remote devices	United States of America	14/063779	10/25/2013	US9457286B2	10/04/2016	Granted
RPX Corporation	Radio controller system and method for remote devices	United States of America	12/767336	04/26/2010	US8275317B2	09/25/2012	Granted
RPX corporation	Radio controller system and method for remote devices	United States of America	11/970180	01/07/2008	US7734254B2	06/08/2010	Granted
RPX Corporation	Personal area network with automatic attachment and detachment	United States of America	11/728246	03/23/2007	US7756129B2	07/13/2010	Granted
RPX Corporation	Personal area network with automatic attachment and detachment	United States of America	12/699836	02/03/2010	US8068489B2	11/29/2011	Granted
RPX Corporation	Personal area network with automatic attachment and detachment	United States of America	12/699846	02/03/2010	US8149829B2	04/03/2012	Granted
RPX Corporation	Personal area network with automatic attachment and detachment	United States of America	13/430650	03/26/2012	US8675590B2	03/18/2014	Granted
RPX Corporation	Personal area network apparatus	United States of America	13/754807	01/30/2013	US8700815B2	04/15/2014	Granted



Owner	Title	Country	Application No.	Filing Date	Patent / Publication No.	Issue Date	Patent Status
		America					
RPX Corporation	Automatic attachment and detachment for hub and peripheral devices	United States of America	13/758866	02/04/2013	US8582570B2	11/12/2013	Granted
RPX Corporation	Personal area network apparatus	United States of America	13/763604	02/08/2013	US8582571B2	11/12/2013	Granted
RPX Corporation	Personal area network apparatus	United States of America	13/789544	03/07/2013	US8588231B2	11/19/2013	Granted
RPX Corporation	Automatic attachment and detachment for hub and peripheral devices	United States of America	13/789576	03/07/2013	US8588196B2	11/19/2013	Granted
RPX Corporation	Personal area network apparatus	United States of America	13/941427	07/12/2013	US8732361B2	05/20/2014	Granted
RPX Corporation	Automatic attachment and detachment for hub and peripheral devices	United States of America	13/941431	07/12/2013	US8589599B1	11/19/2013	Granted
RPX Corporation	Automatic attachment and detachment for hub and peripheral devices	United States of America	14/081317	11/15/2013	US8732347B2	05/20/2014	Granted
RPX Corporation	Automatic attachment and detachment for hub and peripheral devices	United States of America	14/081351	11/15/2013	US8683092B1	03/25/2014	Granted
RPX Corporation	Automatic attachment and detachment for hub and peripheral devices	United States of America	14/217281	03/17/2014	US8949484B2	02/03/2015	Granted
RPX Corporation	Automatic attachment and detachment for hub and peripheral devices	United States of America	14/281128	05/19/2014	US9003074B2	04/07/2015	Granted
RPX Corporation	Systems and methods for communicating in a personal area network	United States of America	09/536191	03/27/2000	US7386003B1	06/10/2008	Granted
RPX Corporation	Voice internet transmission system	United States of America	11/937973	11/09/2007	US8331353B2	12/11/2012	Granted
RPX Corporation	Communication data using wideband communications	United States of America	12/981245	12/29/2010	US8040966B2	10/18/2011	Granted
RPX Corporation	Data transfer method, system and computer program product	United States of America	10/029914	12/31/2001	US7188178B2	03/06/2007	Granted
RPX Corporation	Cascading optical switch three dimensional switch fabric system and method	United States of America	10/226460	08/23/2002	US6870982B1	03/22/2005	Granted
RPX Corporation	Differential receiver with wide input common mode range and low duty cycle distortion	United States of America	10/923419	08/20/2004	US7400173B1	07/15/2008	Granted
RPX	Frequency difference	United	09/405626	09/24/1999	US6513127B1	01/28/2003	Granted

Owner	Title	Country	Application No.	Filing Date	Patent / Publication No.	Issue Date	Patent Status
Corporation	detector with programmable channel selection	States of America					
RPX Corporation	Electro-optical apparatus	United States of America	10/268216	10/09/2002	US6890107B1	05/10/2005	Granted
RPX Corporation	Electro-optical apparatus	United States of America	10/268200	10/09/2002	US6815729B1	11/09/2004	Granted
RPX Corporation	Method of manufacturing electro-optical devices	United States of America	10/268205	10/09/2002	US6892449B1	05/17/2005	Granted
RPX Corporation	Low power deserializer circuit and method of using same	United States of America	10/334098	12/30/2002	US6696995B1	02/24/2004	Granted
RPX Corporation	CMOS pixel with dual gate PMOS	United States of America	11/508354	08/23/2006	US7336530B2	02/26/2008	Granted
RPX Corporation	Extended dynamic range image sensor system	United States of America	09/497898	02/04/2000	US6441852B1	08/27/2002	Granted
RPX Corporation	Intelligent light source with synchronization with a digital camera	United States of America	12/661951	03/26/2010	US7948519B2	05/24/2011	Granted
RPX Corporation	Intelligent light source with synchronization with a digital camera	United States of America	12/661927	03/26/2010	US7965316B2	06/21/2011	Granted
RPX Corporation	System and method for automatic extraction of testing information from a functional specification	United States of America	10/758070	01/14/2004	US7305332B1	12/04/2007	Granted
RPX Corporation	High speed RAID cache controller using accelerated graphics port	United States of America	09/239628	01/29/1999	US6249831B1	06/19/2001	Granted
RPX Corporation	Portable terminal	United States of America	09/403189	10/19/1999	US6332024B1	12/18/2001	Granted
RPX Corporation	Processing tool interface apparatus for use in manufacturing environment	United States of America	09/249752	02/12/1999	US6427096B1	07/30/2002	Granted
RPX Corporation	Optical alignment system	United States of America	09/789317	02/20/2001	US6590658B2	07/08/2003	Granted
RPX Corporation	Optical device	United States of America	09/920366	08/01/2001	US6956999B2	10/18/2005	Granted
RPX Corporation	Optical device	United States of America	09/789124	02/20/2001	US6546172B2	04/08/2003	Granted
RPX Corporation	Optical device with alignment compensation	United States of America	11/181530	07/14/2005	US7369334B2	05/06/2008	Granted
RPX Corporation	Optical module	United States of America	09/789125	02/20/2001	US6546173B2	04/08/2003	Granted
RPX Corporation	Method and device for performing error correction on ECC data sectors	United States of America	09/258246	02/25/1999	US6662334B1	12/09/2003	Granted
RPX Corporation	Method and system for	United States of America	09/259481	02/26/1999	US6532232B1	03/11/2003	Granted

Owner	Title	Country	Application No.	Filing Date	Patent / Publication No.	Issue Date	Patent Status
Corporation	transporting audio/video data over a serial bus	States of America					
RPX Corporation	Method and structure for automatic SCSI command delivery using the packetized SCSI protocol	United States of America	09/842750	04/25/2001	US6883042B1	04/19/2005	Granted
RPX Corporation	Methods and apparatus for implementing a device side advanced serial protocol	United States of America	09/526028	03/15/2000	US6675243B1	01/06/2004	Granted
RPX Corporation	Host and device serial communication protocols and communication packet formats	United States of America	09/526030	03/15/2000	US6609167B1	08/19/2003	Granted
RPX Corporation	Methods and apparatus for implementing a host side advanced serial protocol	United States of America	09/526293	03/15/2000	US6636922B1	10/21/2003	Granted
RPX Corporation	Data channel architecture for parallel SCSI host adapters	United States of America	09/275652	03/24/1999	US6408354B1	06/18/2002	Granted
RPX Corporation	Method to transmit bits of data over a bus	United States of America	10/215069	08/07/2002	US7272194B1	09/18/2007	Granted
RPX Corporation	Dual mode phase and frequency detector	United States of America	09/539480	03/30/2000	US6285219B1	09/04/2001	Granted
RPX Corporation	Package for a software application	United States of America	09/545148	04/07/2000	US6401919B1	06/11/2002	Granted
RPX Corporation	PCI delayed transaction time out counter and associated methods	United States of America	09/295051	04/20/1999	US6473826B1	10/29/2002	Granted
RPX Corporation	Dynamic file system configurations	United States of America	09/558318	04/25/2000	US6714949B1	03/30/2004	Granted
RPX Corporation	Hard disk bootstrap redirection	United States of America	09/302921	04/30/1999	US6415382B1	07/02/2002	Granted
RPX Corporation	Precomp cutback differential driver	United States of America	10/121485	04/12/2002	US6664811B1	12/16/2003	Granted
RPX Corporation	Multiple frequency clock generation and synchronization	United States of America	09/072916	05/04/1998	US6064247	05/16/2000	Granted
RPX Corporation	Methods for congestion mitigation in infiniband	United States of America	10/141147	05/07/2002	US7000025B1	02/14/2006	Granted
RPX Corporation	Scan flop circuitry and methods for making the same	United States of America	09/316492	05/21/1999	US6393592B1	05/21/2002	Granted
RPX Corporation	Programmable generic read channel control device	United States of America	09/576705	05/22/2000	US6529973B1	03/04/2003	Granted
RPX Corporation	Device and method for extending error correction beyond one sector time	United States of America	09/087731	05/29/1998	US6192499B1	02/20/2001	Granted

Owner	Title	Country	Application No.	Filing Date	Patent / Publication No.	Issue Date	Patent Status
RPX Corporation	RAM based error correction encoder and syndrome generator with programmable interleaving degrees	United States of America	08/087433	05/29/1998	US6163871	12/19/2000	Granted
RPX Corporation	Mobile communication apparatus notifying user of reproduction waiting information effectively	United States of America	09/323241	06/01/1999	US6456841B1	09/24/2002	Granted
RPX Corporation	Monitor port with selectable trace support	United States of America	09/089278	06/02/1998	US6311303B1	10/30/2001	Granted
RPX Corporation	Non-invasive bus master back-off circuit and method for systems having a plurality of bus masters	United States of America	09/096300	06/02/1998	US6112272	08/29/2000	Granted
RPX Corporation	System for register partitioning in multi-tasking host adapters by assigning a register set and a unique identifier in each of a plurality of hardware modules	United States of America	09/089013	06/02/1998	US6243767B1	06/05/2001	Granted
RPX Corporation	Execution suspension and resumption in multi-tasking host adapters	United States of America	09/088810	06/02/1998	US6253272B1	06/26/2001	Granted
RPX Corporation	Gated clock flip-flops	United States of America	9325013	06/02/1999	US6275081B1	08/14/2001	Granted
RPX Corporation	Multi-layer printed circuit board with dual impedance section	United States of America	09/587307	06/05/2000	US6365839B1	04/02/2002	Granted
RPX Corporation	Stacked I/O bridge circuit assemblies having flexibly configurable connections	United States of America	09/096033	06/11/1998	US6477593B1	11/05/2002	Granted
RPX Corporation	Modular bus bridge system compatible with multiple bus pin configurations	United States of America	09/096096	06/11/1998	US6098140	08/01/2000	Granted
RPX Corporation	Bus system expandable by connection of a bus bridge circuit	United States of America	09/095908	06/11/1998	US6256689B1	07/03/2001	Granted
RPX Corporation	Programmable analog-to-digital converter with bit conversion optimization	United States of America	09/595437	06/15/2000	US6329938B1	12/11/2001	Granted
RPX Corporation	High speed gain stage with DC offset cancellation for servo demodulator circuit	United States of America	09/099666	06/18/1998	US6204980B1	03/20/2001	Granted
RPX Corporation	Hard drive with format calculator for	United States of America	09/602563	06/22/2000	US6487029B1	11/26/2002	Granted

Owner	Title	Country	Application No.	Filing Date	Patent / Publication No.	Issue Date	Patent Status
	generating sector numbers on track	America					
The Penn State Research Foundation / The Clorox Company / RPX Corporation	Stain removing compositions containing particular isolated and pure proteolytic enzymes	United States of America	09/602417	06/23/2000	US6326346B1	12/04/2001	Granted
RPX Corporation	Methods for predicting reliability of semiconductor devices using voltage stressing	United States of America	09/557747	04/25/2000	US6414508B1	07/02/2002	Granted
RPX Corporation	Scan cell including a propagation delay and isolation element	United States of America	09/107240	06/30/1998	US6412098B1	06/25/2002	Granted
RPX Corporation	SCSI bus free phase management structure and method of operation for parallel SCSI host adapter integrated circuits	United States of America	09/343323	06/30/1999	US6477601B1	11/05/2002	Granted
RPX Corporation	Structure and method for automatic configuration for SCSI Synchronous data transfers	United States of America	09/343492	06/30/1999	US6457090B1	09/24/2002	Granted
RPX Corporation	Method for generating a footprint image file for an intelligent backup and restoring system	United States of America	09/256686	02/23/1999	US6374363B1	04/16/2002	Granted
RPX Corporation	Automated drive repair systems and methods	United States of America	09/256682	02/23/1999	US6374366B1	04/16/2002	Granted
RPX Corporation	Method and apparatus for backing up a disk drive upon a system failure	United States of America	09/256681	02/23/1999	US6385707B1	05/07/2002	Granted
RPX Corporation	Intelligent backup and restoring system and method for implementing the same	United States of America	09/715589	11/17/2000	US6477629B1	11/05/2002	Granted
RPX Corporation	Method for managing primary and secondary storage devices in an intelligent backup and restoring system	United States of America	09/256687	02/23/1999	US6532535B1	03/11/2003	Granted
RPX Corporation	Method of generating a database for use in an intelligent backup and restoring system	United States of America	09/256676	02/23/1999	US6684229B1	01/27/2004	Granted
RPX Corporation	Intelligent backup and restoring system and method for implementing the same	United States of America	09/110783	07/06/1998	US6205527B1	03/20/2001	Granted
RPX Corporation	Drive preparation methods for intelligent backup systems	United States of America	09256601	02/23/1999	US6289426B1	09/11/2001	Granted
RPX Corporation	Methods for selecting a boot partition and hiding a non-selected	United States of America	09568087	05/09/2000	US6430663B1	08/06/2002	Granted

Owner	Title	Country	Application No.	Filing Date	Patent / Publication No.	Issue Date	Patent Status
	partition						
RPX Corporation	Bias compensator for differential transmission line with voltage bias	United States of America	09/113729	07/10/1998	US6124727	09/26/2000	Granted
RPX Corporation	Electrostatic discharge protection bus/die edge seal	United States of America	09/116434	07/15/1998	US6078068	06/20/2000	Granted
RPX Corporation	One-piece multiple-compartment shipping and display box	United States of America	09/119716	07/20/1998	US6095408	08/01/2000	Granted
RPX Corporation	Method and apparatus for a programmable deskew circuit	United States of America	10/209552	07/30/2002	US6915462B1	07/05/2005	Granted
RPX Corporation	Apparatus and method for programmable dual stage digital filter	United States of America	10/209494	07/30/2002	US7206798B1	04/17/2007	Granted
RPX Corporation	Data communications system	United States of America	09/127647	07/31/1998	US6442196B1	08/27/2002	Granted
RPX Corporation	System and method for interconnecting downstream USB ports using limited power during unconfigured state	United States of America	10/839931	05/05/2004	US7454630B1	11/18/2008	Granted
RPX Corporation	Fast-scan-flop and integrated circuit device incorporating the same	United States of America	09/136071	08/18/1998	US6289477B1	09/11/2001	Granted
RPX Corporation	Methods for addressing extended number of peripheral devices over peripheral bus	United States of America	09/636038	08/09/2000	US6708242B1	03/16/2004	Granted
RPX Corporation	Method and apparatus for accelerating test case development	United States of America	10/645729	08/20/2003	US7231616B1	06/12/2007	Granted
RPX Corporation	Parallel Chien search circuit	United States of America	09/141871	08/27/1998	US6192497B1	02/20/2001	Granted
RPX Corporation	Low power scan test cell and method for making the same	United States of America	09/144485	08/31/1998	US6114892	09/05/2000	Granted
RPX Corporation	Message signaled interrupt generating device and method	United States of America	09/630341	07/31/2000	US6629179B1	09/30/2003	Granted
RPX Corporation	NFET/PFET RAM precharge circuitry to minimize read sense amp operational range	United States of America	09/395922	09/14/1999	US6108256	08/22/2000	Granted
RPX Corporation	Discrete circuit for driving field effect transistors	United States of America	10/940872	09/14/2004	US7242560B2	07/10/2007	Granted
RPX Corporation	Boundary-scan cells with improved timing characteristics	United States of America	9153634	09/15/1998	US6266801B1	07/24/2001	Granted
RPX Corporation	Modular bus bridge	United States of America	9160123	09/24/1998	US6263391B1	07/17/2001	Granted
RPX Corporation	Automated test vector generation and	United States of	09/160553	09/24/1998	US6304837B1	10/16/2001	Granted

Owner	Title	Country	Application No.	Filing Date	Patent / Publication No.	Issue Date	Patent Status
	verification	America					
RPX Corporation	Bridge device for transferring data using master-specific prefetch sizes	United States of America	09/405345	09/24/1999	US6636927B1	10/21/2003	Granted
RPX Corporation	Compact disc package system and methods for packaging the same	United States of America	09/972600	10/05/2001	US6681928B1	01/27/2004	Granted
RPX Corporation	Dual mode clock alignment and distribution device	United States of America	09/680918	10/06/2000	US6687322B1	02/03/2004	Granted
RPX Corporation	Multi-processor bus protocol system	United States of America	09/169444	10/09/1998	US6449289B1	09/10/2002	Granted
RPX Corporation	Disk drive testing	United States of America	09/175586	10/20/1998	US6282501B1	08/28/2001	Granted
RPX Corporation	Method and apparatus for data bit align	United States of America	10/218313	08/13/2002	US7324421B1	01/29/2008	Granted
RPX Corporation	Method for forming solder bumps using a solder jetting device	United States of America	09/435843	11/08/1999	US6402012B1	06/11/2002	Granted
RPX Corporation	PCI bridge for optimized command delivery	United States of America	09/190465	11/12/1998	US6247086B1	06/12/2001	Granted
RPX Corporation	Apparatus and method for generating interleave erasure locations from thermal asperity erasure pointers	United States of America	09/192913	11/16/1998	US6389571B1	05/14/2002	Granted
RPX Corporation	Delay data block release system in a disk drive	United States of America	09/197715	11/23/1998	US6256685B1	07/03/2001	Granted
RPX Corporation	Circuit and method for synchronized data banking	United States of America	09/448027	11/23/1999	US6282149B1	08/28/2001	Granted
RPX Corporation	Method and apparatus for a secure computing environment	United States of America	10/006308	12/06/2001	US7260726B1	08/21/2007	Granted
RPX Corporation	Automated scan chain sizing using Synopsys	United States of America	09/208594	12/08/1998	US6212656B1	04/03/2001	Granted
RPX Corporation	Method and apparatus for aligning operands for a processor	United States of America	10/726427	12/02/2003	US7320013B2	01/15/2008	Granted
RPX Corporation	System and method for disk control with snapshot feature including read-write snapshot half	United States of America	09/465354	12/16/1999	US6341341B1	01/22/2002	Granted
RPX Corporation	Method and apparatus for synchronizing a decoder circuit with a phase-encoded data signal in a data storage device	United States of America	09/222078	12/29/1998	US6167526	12/26/2000	Granted
RPX Corporation	Method and apparatus for accurately aligning a series of detection windows with a	United States of America	09/222509	12/29/1998	US6298101B1	10/02/2001	Granted

Owner	Title	Country	Application No.	Filing Date	Patent / Publication No.	Issue Date	Patent Status
	synchronization pattern in a data storage device						
RPX Corporation	Methods and system for fast session establishment between equipment using H.324 and related telecommunications protocols	United States of America	11/373413	03/10/2006	US7161949B2	01/09/2007	Granted
RPX Corporation	Method for determining the optimum locations for scan latches in a partial-scan IC built in self test system	United States of America	09/315904	05/20/1999	US6651197B1	11/18/2003	Granted
RPX Corporation	Liquid crystal flat panel display with enhanced backlight brightness and specially selected light sources	United States of America	09/087280	05/29/1998	US6243068B1	06/05/2001	Granted
RPX Corporation	Compact flat panel color calibration system	United States of America	10/013576	12/10/2001	US6853387B2	02/08/2005	Granted
RPX Corporation	Automatic frame accumulator	United States of America	09/153273	09/14/1998	US5977965	11/02/1999	Granted
RPX Corporation	Increasing color accuracy	United States of America	09/818931	03/28/2001	US6650337B2	11/18/2003	Granted
RPX Corporation	Method system and computer program product for visualizing an evidence classifier	United States of America	09/218445	12/22/1998	US6460049B1	10/01/2002	Granted
RPX Corporation	Method and apparatus of pseudogrounding	United States of America	09/296234	04/22/1999	US6249062B1	06/19/2001	Granted
RPX Corporation	Call processing signal routing system in a local exchange system	United States of America	09/111791	07/08/1998	US6304650B1	10/16/2001	Granted
RPX Corporation	Apparatus and method for inspecting optical fiber end face	United States of America	10/445315	05/27/2003	US7239788B2	07/03/2007	Granted
RPX Corporation	High speed wireless OFDM transceiver modem	United States of America	09/505228	02/16/2000	US6760300B1	07/06/2004	Granted
RPX Corporation	Conditional security response using taint vector monitoring	United States of America	13317980	10/31/2011	US9460290B2	10/04/2016	Granted
RPX Corporation	Processor configured to allocate resources using an entitlement vector	United States of America	13317834	10/28/2011	US9098608B2	08/04/2015	Granted
RPX Corporation	Encrypted memory	United States of America	13136400	07/29/2011	US8930714B2	01/06/2015	Granted
RPX Corporation	Fine-grained security in federated data sets	United States of America	13136401	07/29/2011	US8943313B2	01/27/2015	Granted
RPX Corporation	Entitlement vector for managing resource allocation	United States of America	14335736	07/18/2014	US9558034B2	01/31/2017	Granted



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RPX Corporation	Processor operable to ensure code integrity	United States of America	13136670	08/04/2011	US9798873B2	10/24/2017	Granted
RPX Corporation	Security perimeter	United States of America	13136666	08/04/2011	US9575903B2	02/21/2017	Granted
RPX Corporation	Entitlement vector for library usage in managing resource allocation and scheduling based on usage and priority	United States of America	13200556	09/24/2011	US9471373B2	10/18/2016	Granted
RPX Corporation	Entitlement vector for library usage in managing resource allocation and scheduling based on usage and priority	United States of America	13200551	09/24/2011	US9465657B2	10/11/2016	Granted
RPX Corporation	Data handling apparatus adapted for scheduling operations according to resource allocation based on entitlement	United States of America	13200557	09/24/2011	US9170843B2	10/27/2015	Granted
RPX Corporation	Instruction set adapted for security risk monitoring	United States of America	13200547	09/24/2011	US8955111B2	02/10/2015	Granted
RPX Corporation	Taint injection and tracking	United States of America	15080262	03/24/2016	US9813445B2	11/07/2017	Granted
RPX Corporation	Scheduling threads based on priority utilizing entitlement vectors, weight and usage level	United States of America	13317826	10/28/2011	US8813085B2	08/19/2014	Granted
RPX Corporation	Intrusion detection using taint accumulation	United States of America	13199368	08/26/2011	US9443085B2	09/13/2016	Granted
RPX Corporation	User Authentication System and Method for Encryption and Decryption	United States of America	14/277238	05/14/2014	US9203626B2	12/1/2015	Granted
RPX Corporation	Method of transparent encryption and decryption for an electronic document management system	United States of America	09/074191	05/07/1998	US6185681B1	02/06/2001	Granted
RPX Corporation	User authentication system and method for encryption and decryption	United States of America	12/957479	12/01/2010	US8359476B2	01/22/2013	Granted
RPX Corporation	User authentication system and method for encryption and decryption	United States of America	13/717558	12/17/2012	US8762713B2	06/24/2014	Granted
RPX Corporation	Streaming of data	United States of America	10/007464	12/05/2001	US7376747B2	05/20/2008	Granted
RPX Corporation	Methods for initiating telephone communications using a telephone number	United States of America	10/188260	07/01/2002	US7218629B2	05/15/2007	Granted

Owner	Title	Country	Application No.	Filing Date	Patent / Publication No.	Issue Date	Patent Status
	extracted from user-highlighted content on a computer						
RPX Corporation	Systems and methods for multiple mode voice and data communications using intelligently bridged TDM and packet buses	United States of America	10/325346	12/19/2002	US7310308B2	12/18/2007	Granted
RPX Corporation	Systems and methods for multiple mode voice and data communications using intelligently bridged TDM and packet buses and methods for performing telephony and data functions using the same	United States of America	09/419390	01/03/2000	US6529502B2	03/04/2003	Granted
RPX Corporation	SYSTEMS AND METHODS FOR MULTIPLE MODE VOICE AND DATA COMMUNICATIONS USING INTELLIGENTLY BRIDGED TDM AND PACKET BUSES AND METHODS FOR IMPLEMENTING LANGUAGE CAPABILITIES USING THE SAME	United States of America	11/707559	02/16/2007	US9037451	05/19/2015	Granted
RPX Corporation	Systems and methods for multiple mode voice and data communications using intelligently bridged TDM and packet buses and methods for performing telephony and data functions using the same	United States of America	09/418960	10/15/1999	US6445682B1	09/03/2002	Granted
RPX Corporation	Method and apparatus for controlling telephone calls using a computer call assistant	United States of America	11/803567	05/14/2007	US7450573B2	11/11/2008	Granted
RPX Corporation	Method and apparatus for controlling telephone calls using a computer assistant	United States of America	12/290637	11/01/2008	US7990954B2	08/02/2011	Granted
RPX Corporation	Functional-level instruction-set computer architecture for processing application-layer content-service requests such as file-access requests	United States of America	11/888411	07/31/2007	US7908464B2	03/15/2011	Granted
RPX Corporation	Radiotelephone	United States of America	09721618	11/27/2000	US6662004B1	12/09/2003	Granted

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		America					
RPX Corporation	Method and system for providing and transmitting alternative video data during interruptions in video transmissions	United States of America	09/891772	06/26/2001	US6661448B2	12/09/2003	Granted
RPX Corporation	Method for outputting traffic information in a motor vehicle	United States of America	09/515813	02/29/2000	US6868331B2	03/15/2005	Granted
RPX Corporation	Method and device for downlink packet switching	United States of America	09/788275	02/16/2001	US6970438B2	11/29/2005	Granted
RPX Corporation	Intelligent copy and paste operations for application handling units, preferably handsets	United States of America	09/096692	06/12/1998	US6309305B1	10/30/2001	Granted
RPX Corporation	Error detection in receiving multiplex signals	United States of America	09/337916	06/22/1999	US6959020B1	10/25/2005	Granted
RPX Corporation	Method, apparatus and system for fast acquisition of a spread spectrum signal	United States of America	09/708966	11/08/2000	US6735243B1	05/11/2004	Granted
RPX Corporation	Method and arrangement for controlling a mobile subscription in a module communication system	United States of America	09/655923	09/06/2000	US6804517B1	10/12/2004	Granted
RPX Corporation	Time tracking loop for pilot aided direct sequence spread spectrum systems	United States of America	09/386060	08/30/1999	US6735242B1	05/11/2004	Granted
RPX Corporation	Secure user action request indicator	United States of America	11/533541	09/20/2006	US7478430B2	01/13/2009	Granted
RPX Corporation	Alerting apparatus	United States of America	09/427625	10/27/1999	US6304170B1	10/16/2001	Granted
RPX Corporation	Method and devices for transmitting short messages	United States of America	09/456593	12/08/1999	US6230020B1	05/08/2001	Granted
RPX Corporation	Closed-loop power control method	United States of America	09/224653	12/31/1998	US6163708	12/19/2000	Granted
RPX Corporation	Secure intranet access	United States of America	10650211	08/28/2003	US6950936B2	09/27/2005	Granted
RPX Corporation	Method and apparatus for building an application interface	United States of America	09595575	06/14/2000	US6563522B1	05/13/2003	Granted
RPX Corporation	Method and apparatus for end to end forwarding architecture	United States of America	09/770832	01/25/2001	US7035212B1	04/25/2006	Granted
RPX Corporation	Surround security system	United States of America	12/879564	09/10/2010	US8595820B1	11/26/2013	Granted
RPX Corporation	Methods and systems for a memory section	United States of America	11/798573	05/15/2007	US7941595B2	05/10/2011	Granted

Owner	Title	Country	Application No.	Filing Date	Patent / Publication No.	Issue Date	Patent Status
RPX Corporation	Method and apparatus for protecting information and privacy	United States of America	09706074	11/03/2000	US6889209B1	05/03/2005	Granted
RPX Corporation	Method and system for generating a secure wireless link between a handset and base station	United States of America	10/235075	09/04/2002	US6754483B2	06/22/2004	Granted
RPX Corporation	System and method for secure three-party communications	United States of America	14557428	12/01/2014	US9419951B1	08/16/2016	Granted
RPX Corporation	ADSL transmission in the presence of low-frequency network services	United States of America	09451541	12/01/1999	US6741604B1	05/25/2004	Granted
RPX Corporation	Navigation system with three-dimensional display	United States of America	09071480	05/01/1998	US6285317B1	09/04/2001	Granted
RPX Corporation	Data processing recovery system and method spanning multiple operating system	United States of America	11/396894	04/03/2006	US7430686B1	09/30/2008	Granted
RPX Corporation	Data processing recovery system and method spanning multiple operating system	United States of America	12/286202	09/29/2008	US7689861B1	03/30/2010	Granted
RPX Corporation	Method and system for updating a software image	United States of America	12/705966	02/15/2010	US8145940B1	03/27/2012	Granted
RPX Corporation	Data processing recovery system and method spanning multiple operating system	United States of America	12/749577	03/30/2010	US8219850B1	07/10/2012	Granted
RPX Corporation	Systems and methods with early variance measure used to optimize video encoding	United States of America	13274044	10/14/2011	US9426494B2	08/23/2016	Granted
RPX Corporation	Tile based rendering of smooth points using polygons	United States of America	14178945	02/12/2014	US9589375B2	03/07/2017	Granted
RPX Corporation	Systems, methods, software, and components using tamper-proof real-time clock	United States of America	14511069	10/09/2014	US9569599B2	02/14/2017	Granted
RPX Corporation	Same tile method	United States of America	10087233	02/28/2002	US6798421B2	09/28/2004	Granted
RPX Corporation	Multi-processor graphics accelerator	United States of America	10136585	05/01/2002	US6535216B1	03/18/2003	Granted
RPX Corporation	Multi-processor graphics accelerator	United States of America	10136505	05/01/2002	US6642928B1	11/04/2003	Granted
RPX Corporation	Wide instruction word graphics processor	United States of America	10411405	04/10/2003	US6948087B2	09/20/2005	Granted

Owner	Title	Country	Application No.	Filing Date	Patent / Publication No.	Issue Date	Patent Status
RPX Corporation	Flexible Microprocessor Register File	United States of America	13653898	10/17/2012	US9665369	05/30/2017	Granted
RPX Corporation	METHODS FOR MANIPULATING WEB PAGES	United States of America	15162386	05/23/2016	US9356075B2		Granted
RPX Corporation	Mobile telephone terminal with improved utility	United States of America	11416478	5/3/2006	USRE42459	6/14/2011	Reissued
RPX Corporation	Mobile telephone terminal with improved utility	United States of America	11008752	12/10/2004	USRE41997	12/14/2010	Reissued
RPX Corporation	Preventive measures for adaptive flash tuning	United States of America	15194447	6/27/2016	US9875813	1/23/2018	Granted
RPX Corporation	Behavioral fingerprinting via social networking interaction	United States of America	13602061	8/31/2012	US9825967	11/21/2017	Granted
RPX Corporation	Behavioral fingerprinting with adaptive development	United States of America	13678380	11/15/2012	US9729549	8/8/2017	Granted
RPX Corporation	Waypoint generation for adaptive flash tuning	United States of America	15194465	6/27/2016	US9645751	5/9/2017	Granted
RPX Corporation	Candidate generation for adaptive flash tuning	United States of America	15194461	6/27/2016	US9639284	5/2/2017	Granted
RPX Corporation	Offline characterization for adaptive flash tuning	United States of America	15194450	6/27/2016	US9639283	5/2/2017	Granted
RPX Corporation	Method and apparatus for selectively enabling a microprocessor-based system	United States of America	14521341	10/22/2014	US9626514	4/18/2017	Granted
RPX Corporation	Behavioral fingerprinting with social networking	United States of America	13691466	11/30/2012	US9621404	4/11/2017	Granted
RPX Corporation	Methods of transmitting and receiving a media information file for http streaming	United States of America	13819599	8/29/2011	US9608748	3/28/2017	Granted
RPX Corporation	Adaptive flash tuning	United States of America	14816986	8/3/2015	US9569120	2/14/2017	Granted
RPX Corporation	Considering selling exemplar-based goods, items, or services	United States of America	14095778	12/3/2013	US9558514	1/31/2017	Granted
RPX Corporation	Browsing support infrastructure with tiered malware support	United States of America	14486322	9/15/2014	US9509713	11/29/2016	Granted
RPX Corporation	Web browser accessible search engine which adapts based on user interaction	United States of America	14537239	11/10/2014	US9460216	10/4/2016	Granted
RPX Corporation	Support for international search terms-translate as you crawl	United States of America	14738352	6/12/2015	US9443020	9/13/2016	Granted
RPX Corporation	Method and system for operating a	United States of	14026600	9/13/2013	US9432302	8/30/2016	Granted

	commissioned e-commerce service provider	America						
RPX Corporation	Method for transmitting a scalable http stream for natural reproduction upon the occurrence of expression-switching during http streaming	United States of America	13877995	10/5/2011	US9369508	6/14/2016	Granted	
RPX Corporation	Behavioral fingerprint controlled automatic task determination	United States of America	13373684	11/23/2011	US9348985	5/24/2016	Granted	
RPX Corporation	Methods for manipulating web pages	United States of America	11567689	12/06/2006	US9348938B2	05/24/2016	Granted	
RPX Corporation	Method and apparatus for increasing effective contrast ratio and brightness yields for digital light valve image projectors	United States of America	14257052	4/21/2014	US9300900	3/29/2016	Granted	
RPX Corporation	Taint injection and tracking	United States of America	13373832	11/30/2011	US9298918B2	03/29/2016	Granted	
RPX Corporation	Behavioral fingerprinting via inferred personal relation	United States of America	13665830	10/31/2012	US9298900	3/29/2016	Granted	
RPX Corporation	Systems and methods for improved multisite management and reporting of converged communication systems and computer systems	United States of America	13731773	12/31/2012	US9270735	2/23/2016	Granted	
RPX Corporation	Adjusting flash memory operating parameters based on historical analysis of multiple indicators of degradation	United States of America	14623405	2/16/2015	US9262319	2/16/2016	Granted	
RPX Corporation	Search system using source and target image categorization	United States of America	13662784	10/29/2012	US9244945	1/26/2016	Granted	
RPX Corporation	Internet search engine preventing virus exchange	United States of America	12372589	2/17/2009	US9237166	1/12/2016	Granted	
RPX Corporation	Sales channel management infrastructure	United States of America	13437548	4/2/2012	US9224170	12/29/2015	Granted	
RPX Corporation	Browser based language recognition supporting central web search translation	United States of America	13665340	10/31/2012	US9223869	12/29/2015	Granted	
RPX Corporation	Search engine with geographical verification processing	United States of America	13659495	10/24/2012	US9177061	11/3/2015	Granted	
RPX Corporation	Method and apparatus for segmented sequential storage	United States of America	11932896	10/31/2007	US9176741	11/3/2015	Granted	
RPX Corporation	Advertisement detection	United States of America	14158978	1/20/2014	US9147112	9/29/2015	Granted	
RPX Corporation	Logic for synchronizing multiple tasks	United States of America	13774395	2/22/2013	US9141438	9/22/2015	Granted	
RPX Corporation	Pcb mounted cover activated intrusion	United States of America	13860235	4/10/2013	US9135474	9/15/2015	Granted	

	detection switch	America					
RPX Corporation	Direct mode adapter based shortcut for fcoe data transfer	United States of America	14491628	9/19/2014	US9106641	8/11/2015	Granted
RPX Corporation	Seller promotion creation and modification	United States of America	13397897	2/16/2012	US9098879	8/4/2015	Granted
RPX Corporation	Toolless hot swappable storage module	United States of America	13931815	6/29/2013	US9098249	8/4/2015	Granted
RPX Corporation	Multi-device behavioral fingerprinting	United States of America	13563599	7/31/2012	US9083687	7/14/2015	Granted
RPX Corporation	Web search and promotion search engine integration	United States of America	13400439	2/20/2012	US9082153	7/14/2015	Granted
RPX Corporation	Method and apparatus for an improved file repository	United States of America	14307844	6/18/2014	US9075838	7/7/2015	Granted
RPX Corporation	Search tree algorithms	United States of America	14056484	10/17/2013	US9071555	6/30/2015	Granted
RPX Corporation	Centralized, online multi-seller interface system	United States of America	13400231	2/20/2012	US9070167	6/30/2015	Granted
RPX Corporation	Centralized, online multi-seller interface system	United States of America	13400220	2/20/2012	US9070166	6/30/2015	Granted
RPX Corporation	User interface with variable sized icons	United States of America	11969860	1/4/2008	US9069877	6/30/2015	Granted
RPX Corporation	Support for international search termstranslate as you crawl	United States of America	13589314	8/20/2012	US9058321	6/16/2015	Granted
RPX Corporation	System supporting promotion browsing and searching	United States of America	13400466	2/20/2012	US9053514	6/9/2015	Granted
RPX Corporation	Web browser accessible search engine with statistics gathering persistence	United States of America	12368980	2/10/2009	US9053188	6/9/2015	Granted
RPX Corporation	Web browser accessible search engine that identifies search result maxima through user search flow and result content comparison	United States of America	14185417	2/20/2014	US9053187	6/9/2015	Granted
RPX Corporation	Event source management using a metadata-driven framework	United States of America	13159927	6/14/2011	US9047145	6/2/2015	Granted
RPX Corporation	Face authentication system, face authentication method, and face authentication program	United States of America	13695248	9/5/2011	US9042609	5/26/2015	Granted
RPX Corporation	System with multiple network protocol support	United States of America	13210426	8/16/2011	US9037741	5/19/2015	Granted
RPX Corporation	Methods, systems and products for generating web pages	United States of America	12576285	10/9/2009	US9020904	4/28/2015	Granted
RPX Corporation	Behavioral fingerprinting via derived personal relation	United States of America	13631667	9/28/2012	US9015860	4/21/2015	Granted
RPX	Automatic	United	13608633	09/10/2012	US9015176B2	04/21/2015	Granted

Corporation	identification of related search keywords	States of America						
RPX Corporation	System and method for providing computer upgrade information	United States of America	11613180	12/19/2006	US9009698	4/14/2015	Granted	
RPX Corporation	Software framework that facilitates design and implementation of database applications	United States of America	12140569	6/17/2008	US9009195	4/14/2015	Granted	
RPX Corporation	Web search with multi-language search input translation	United States of America	13664243	10/30/2012	US9009184	4/14/2015	Granted	
RPX Corporation	Moving object detecting device, moving object detecting method, moving object detection program, moving object tracking device, moving object tracking method, and moving object tracking program	United States of America	13256848	3/22/2011	US8989448	3/24/2015	Granted	
RPX Corporation	System and methods for extending operational lifetime of flash memory	United States of America	13497569	9/23/2010	US8984210	3/17/2015	Granted	
RPX Corporation	Permutable switching network with enhanced interconnectivity for multicasting signals	United States of America	13904916	5/29/2013	US8981814	3/17/2015	Granted	
RPX Corporation	Techniques for representing and navigating information in three dimensions	United States of America	11671660	2/6/2007	US8972898	3/3/2015	Granted	
RPX Corporation	Techniques for debugging an application	United States of America	13198281	8/4/2011	US8966448	2/24/2015	Granted	
RPX Corporation	Contextual data communication platform	United States of America	13442609	4/9/2012	US8959190	2/17/2015	Granted	
RPX Corporation	Universal management of user profiles	United States of America	13846609	3/18/2013	US8925056	12/30/2014	Granted	
RPX Corporation	Channel service manager	United States of America	14081716	11/15/2013	US8917740	12/23/2014	Granted	
RPX Corporation	System and method for secure three-party communications	United States of America	13682040	11/20/2012	US8904181B1	12/02/2014	Granted	
RPX Corporation	Method and system for locating and communicating with a user of a wireless communication device	United States of America	14015399	8/30/2013	US8890695	11/18/2014	Granted	
RPX Corporation	Method and apparatus for selectively enabling a microprocessor-based system	United States of America	13841573	3/15/2013	US8881270	11/4/2014	Granted	
RPX Corporation	Network acquired behavioral fingerprint for authentication	United States of America	13538385	6/29/2012	US8869241	10/21/2014	Granted	
RPX Corporation	System and method for maintaining presence and communicating over a computer network using the http	United States of America	13608014	9/10/2012	US8868761	10/21/2014	Granted	



	protocol							
RPX Corporation	Method and apparatus for increasing effective contrast ratio and brightness yields for digital light valve image projectors	United States of America	13957777	8/2/2013	US8860891	10/14/2014	Granted	
RPX Corporation	Image identification device, image identification method, and recording medium	United States of America	13477612	5/22/2012	US8855368	10/7/2014	Granted	
RPX Corporation	Direct mode adapter based shortcut for fcoe data transfer	United States of America	14180156	2/13/2014	US8843659	9/23/2014	Granted	
RPX Corporation	System and method for conducting a fantasy sports competition	United States of America	13616669	9/14/2012	US8821291	9/2/2014	Granted	
RPX Corporation	Advertising system supporting dual input interfaces	United States of America	13590778	8/21/2012	US8818863	8/26/2014	Granted	
RPX Corporation	Sales promotion system supporting a plurality of sellers	United States of America	13590945	8/21/2012	US8818854	8/26/2014	Granted	
RPX Corporation	Promotion system supporting emailed promotions and at seller premises transaction completion	United States of America	13590612	8/21/2012	US8818853	8/26/2014	Granted	
RPX Corporation	Promotion system supporting emailed promotions and at seller premises transaction completion	United States of America	13590574	8/21/2012	US8818852	8/26/2014	Granted	
RPX Corporation	System and method for configuring an ip telephony device	United States of America	13729398	12/28/2012	US8804705	8/12/2014	Granted	
RPX Corporation	Voice based addressing of messages	United States of America	12276342	11/23/2008	US8792864	7/29/2014	Granted	
RPX Corporation	Search engine supporting mixed image and text search input	United States of America	13662837	10/29/2012	US8782072	7/15/2014	Granted	
RPX Corporation	Contextual data communication platform	United States of America	13960925	8/7/2013	US8725851	5/13/2014	Granted	
RPX Corporation	System and method for transmitting voice messages through the internet	United States of America	10047374	1/14/2002	US8718049	5/6/2014	Granted	
RPX Corporation	Behavioral fingerprint based authentication	United States of America	13475564	5/18/2012	US8713704	4/29/2014	Granted	
RPX Corporation	Direct mode adapter based shortcut for fcoe data transfer	United States of America	12959371	12/3/2010	US8713162	4/29/2014	Granted	
RPX Corporation	Method and apparatus for linking a web browser link to a promotional offer	United States of America	09382377	8/24/1999	US8712835	4/29/2014	Granted	
RPX Corporation	Geographical and dispensing limits for e-promotions	United States of America	13397825	2/16/2012	US8706553	4/22/2014	Granted	
RPX Corporation	System supporting seller's promotion creation	United States of America	13397862	2/16/2012	US8706549	4/22/2014	Granted	
RPX Corporation	Financial planning based on contextual data	United States of America	13651568	10/15/2012	US8700512	4/15/2014	Granted	

RPX Corporation	Scalable non-blocking switching network for programmable logic	United States of America	13551011	7/17/2012	US8698519	4/15/2014	Granted
RPX Corporation	Behavioral fingerprint controlled theft detection and recovery	United States of America	13373680	11/23/2011	US8689350	4/1/2014	Granted
RPX Corporation	Trust verification schema based transaction authorization	United States of America	13373677	11/23/2011	US8688980	4/1/2014	Granted
RPX Corporation	Fax message receipt and forwarding and/or notification to email	United States of America	12538802	8/10/2009	US8687774	4/1/2014	Granted
RPX Corporation	Forecast and demand based price calculation	United States of America	13437088	4/2/2012	US8684266	4/1/2014	Granted
RPX Corporation	Proximity detection device and proximity detection method	United States of America	12806653	8/18/2010	US8682949	3/25/2014	Granted
RPX Corporation	Light-weight multi-user browser	United States of America	11370516	3/7/2006	US8676973	3/18/2014	Granted
RPX Corporation	System and method for providing voice messaging with dynamic content	United States of America	13087675	4/15/2011	US8675846	3/18/2014	Granted
RPX Corporation	Web search with visited web page search result restrictions	United States of America	13659704	10/24/2012	US8666965	3/4/2014	Granted
RPX Corporation	System and method for dynamic bandwidth provisioning	United States of America	12506140	7/20/2009	US8661153	2/25/2014	Granted
RPX Corporation	Web browser accessible search engine that identifies search result maxima through user search flow and result content comparison	United States of America	13753314	1/29/2013	US8661028	2/25/2014	Granted
RPX Corporation	Network browser supporting historical content viewing	United States of America	12422486	4/13/2009	US8661008	2/25/2014	Granted
RPX Corporation	Method for controlling a computer using an embedded unique code in the content of recorded media	United States of America	11382472	5/9/2006	US8655972	2/18/2014	Granted
RPX Corporation	Contextual computing system	United States of America	13038506	3/2/2011	US8655738	2/18/2014	Granted
RPX Corporation	Programmable packet switching device	United States of America	10336479	01/03/2003	US8654772B2	02/18/2014	Granted
RPX Corporation	Tile based rendering of smooth points using polygons	United States of America	12783549	05/19/2010	US8654129B2	02/18/2014	Granted
RPX Corporation	Search engine using world map with whois database search restriction	United States of America	13189699	7/25/2011	US8650174	2/11/2014	Granted
RPX Corporation	Methods and apparatus for automatically causing a mobile device to download a file	United States of America	13544465	7/9/2012	US8648714	2/11/2014	Granted
RPX Corporation	Verified navigation	United States of America	11502906	08/11/2006	US8645683B1	02/04/2014	Granted

RPX Corporation	Distributed intelligent virtual server	United States of America	12756412	4/8/2010	US8645542	2/4/2014	Granted
RPX Corporation	Unsolicited cookie enabled contextual data communications platform	United States of America	13564600	8/1/2012	US8639785	1/28/2014	Granted
RPX Corporation	Converting paper invoice to electronic form for processing of electronic payment thereof	United States of America	13226177	9/6/2011	US8635156	1/21/2014	Granted
RPX Corporation	Video recognition in compressed digital video streams	United States of America	13718151	12/18/2012	US8634652	1/21/2014	Granted
RPX Corporation	Saddle type mos device	United States of America	11719923	12/6/2005	US8633545	1/21/2014	Granted
RPX Corporation	Method and system for dynamic memory management	United States of America	13365936	2/3/2012	US8631219	1/14/2014	Granted
RPX Corporation	Information record infrastructure, system and method	United States of America	13770764	2/19/2013	US8600895	12/3/2013	Granted
RPX Corporation	Considering selling exemplar-based goods, items, or services	United States of America	12799390	4/23/2010	US8600832	12/3/2013	Granted
RPX Corporation	Packet preclassification search tree algorithms	United States of America	13561017	7/28/2012	US8599877	12/3/2013	Granted
RPX Corporation	Channel service manager with priority queuing	United States of America	13602226	9/3/2012	US8599870	12/3/2013	Granted
RPX Corporation	Search engine using world map with whois database search restrictions	United States of America	13336232	12/23/2011	US8583621	11/12/2013	Granted
RPX Corporation	Whois server verifying whois records and search engine accesses	United States of America	13517820	6/14/2012	US8583612	11/12/2013	Granted
RPX Corporation	Sales promotion system supporting coupon link in multi-seller environment	United States of America	13590899	8/21/2012	US8573491	11/5/2013	Granted
RPX Corporation	Promotion system supporting emailed promotions with transaction accounting	United States of America	13590674	8/21/2012	US8573477	11/5/2013	Granted
RPX Corporation	Programmable logic unit and method for translating and processing instructions using interpretation registers	United States of America	11536483	9/28/2006	US8572354	10/29/2013	Granted
RPX Corporation	Systems and methods for improved multisite management of converged communication systems and computer systems	United States of America	13507237	6/14/2012	US8566437	10/22/2013	Granted
RPX Corporation	System and method for secure communications involving an intermediary	United States of America	12031969	2/15/2008	US8566247	10/22/2013	Granted
RPX Corporation	Digital camera device providing improved	United States of America	12961397	12/6/2010	US8564683	10/22/2013	Granted

	methodology for rapidly taking successive pictures	America					
RPX Corporation	System and method for virtual information cards	United States of America	12201754	8/29/2008	US8561172	10/15/2013	Granted
RPX Corporation	Augmenting television content with on-screen recording, ordering, searching and voip calling options	United States of America	11203659	8/12/2005	US8561113	10/15/2013	Granted
RPX Corporation	Determining device identity using a behavioral fingerprint	United States of America	13373685	11/23/2011	US8555077	10/8/2013	Granted
RPX Corporation	Method and apparatus for using generic authentication architecture procedures in personal computers	United States of America	11328155	1/10/2006	US8543814	9/24/2013	Granted
RPX Corporation	Method and system for controlling network access	United States of America	11076591	3/10/2005	US8543710	9/24/2013	Granted
RPX Corporation	Method and system for operating an e-commerce service provider	United States of America	12957026	11/30/2010	US8538843	9/17/2013	Granted
RPX Corporation	Systems and methods for establishing transactions utilizing a data store of billing information	United States of America	13277713	10/20/2011	US8538806	9/17/2013	Granted
RPX Corporation	Enabling quality voice communications from web page call control	United States of America	13411388	3/2/2012	US8537812	9/17/2013	Granted
RPX Corporation	Sales promotion system with secondary sales server system	United States of America	13590929	8/21/2012	US8534552	9/17/2013	Granted
RPX Corporation	System for online sales with automatic rebate and coupon redemption	United States of America	09687499	10/13/2000	US8533039	9/10/2013	Granted
RPX Corporation	Method and system for locating and communicating with a user of a wireless communication device	United States of America	13647304	10/8/2012	US8525684	9/3/2013	Granted
RPX Corporation	Method and system for locating and communicating with a user of a wireless communication device	United States of America	13647286	10/8/2012	US8525683	9/3/2013	Granted
RPX Corporation	System and method for indicating usage of system resources using taskbar graphics	United States of America	11830534	7/30/2007	US8522247	8/27/2013	Granted
RPX Corporation	Systems and methods for performing an action relating to an event	United States of America	13352869	1/18/2012	US8521826	8/27/2013	Granted
RPX Corporation	Marketing and selling feature length movies over networks	United States of America	11399850	4/8/2006	US8521601	8/27/2013	Granted
RPX Corporation	Automated operation and security system for virtual private networks	United States of America	12206263	9/8/2008	US8520670	8/27/2013	Granted
RPX Corporation	Method and apparatus for increasing effective	United States of	12541248	8/14/2009	US8520149	8/27/2013	Granted

	contrast ratio and brightness yields for digital light valve image projectors	America						
RPX Corporation	Apparatus, system, and method for presenting images in a multiple display environment	United States of America	11858795	9/20/2007	US8516393	8/20/2013	Granted	
RPX Corporation	Electronic payment systems and supporting methods and devices	United States of America	13225724	9/6/2011	US8515870	8/20/2013	Granted	
RPX Corporation	Email portal promotion supporting buyer anonymity	United States of America	13397955	2/16/2012	US8505812	8/13/2013	Granted	
RPX Corporation	Advertising system supporting multi-advertiser system remote advertisement posting	United States of America	13525659	6/18/2012	US8504424	8/6/2013	Granted	
RPX Corporation	Information record infrastructure, system and method	United States of America	12507721	7/22/2009	US8498941	7/30/2013	Granted	
RPX Corporation	Imaging devices operable with multiple aspect ratios	United States of America	13528266	6/20/2012	US8493451	7/23/2013	Granted	
RPX Corporation	Touch-panel display device and portable equipment	United States of America	11914035	7/7/2006	US8487882	7/16/2013	Granted	
RPX Corporation	System and method for providing access control	United States of America	13346139	1/9/2012	US8484695	7/9/2013	Granted	
RPX Corporation	Method and apparatus for accessing a remote location by sensing a machine-resolvable code	United States of America	10791678	3/2/2004	US8484362	7/9/2013	Granted	
RPX Corporation	Advertising system supporting multi-advertiser system interface structures	United States of America	13524616	6/15/2012	US8484093	7/9/2013	Granted	
RPX Corporation	Multi-seller sales system supporting multiple sales portals and promotion systems	United States of America	13527362	6/19/2012	US8479987	7/9/2013	Granted	
RPX Corporation	Device detection system for monitoring use of removable media in networked computers	United States of America	11686055	3/14/2007	US8478860	7/2/2013	Granted	
RPX Corporation	Method, system, and apparatus for creating content-on-demand service	United States of America	12892608	9/28/2010	US8473621	6/25/2013	Granted	
RPX Corporation	Network monitoring system	United States of America	12344243	12/25/2008	US8473606	6/25/2013	Granted	
RPX Corporation	Promotion system supporting web content and promotion searching	United States of America	13590731	8/21/2012	US8473581	6/25/2013	Granted	
RPX Corporation	High density flash memory device, cell string and fabricating method thereof	United States of America	12312985	12/4/2007	US8471295	6/25/2013	Granted	
RPX Corporation	Credentials for blinded intended audiences	United States of America	11479876	6/30/2006	US8468359	6/18/2013	Granted	
RPX Corporation	Advertising system	United States of America	13523465	6/14/2012	US8468055	6/18/2013	Granted	

Corporation	supporting multi-advertiser system communications	States of America						
RPX Corporation	Seller selection of content for promotion creation	United States of America	13397931	2/16/2012	US8468053	6/18/2013	Granted	
RPX Corporation	Competitive advertising and sales infrastructure	United States of America	13540277	7/2/2012	US8464943	6/18/2013	Granted	
RPX Corporation	Sales promotion system supporting a plurality of differing sellers	United States of America	13398009	2/16/2012	US8464942	6/18/2013	Granted	
RPX Corporation	System and method for tracking software changes	United States of America	11907498	10/12/2007	US8464207	6/11/2013	Granted	
RPX Corporation	Promotion infrastructure supporting selected and emailed promotion delivery	United States of America	13449980	4/18/2012	US8463851	6/11/2013	Granted	
RPX Corporation	Multi-search infrastructure supporting advertising and internet search term reuse	United States of America	13523383	6/14/2012	US8463643	6/11/2013	Granted	
RPX Corporation	Promotion data and codes supporting redemption processing	United States of America	13450199	4/18/2012	US8463409	6/11/2013	Granted	
RPX Corporation	Permutable switching network with enhanced interconnectivity for multicasting signals	United States of America	13342787	1/3/2012	US8456192	6/4/2013	Granted	
RPX Corporation	Method and apparatus for co-socket telephony	United States of America	11142371	6/2/2005	US8451822	5/28/2013	Granted	
RPX Corporation	System and method for providing a web-based operating system	United States of America	13091993	4/21/2011	US8447832	5/21/2013	Granted	
RPX Corporation	Location mechanism for mobile device	United States of America	13544384	7/9/2012	US8446272	5/21/2013	Granted	
RPX Corporation	Method and apparatus for selectively enabling a microprocessor-based system	United States of America	13135118	6/24/2011	US8434144	4/30/2013	Granted	
RPX Corporation	Search engine with webpage rating feedback based internet search operation	United States of America	12433561	4/30/2009	US8429750	4/23/2013	Granted	
RPX Corporation	System and method for providing a secure connection between networked computers	United States of America	13173764	6/30/2011	US8429725	4/23/2013	Granted	
RPX Corporation	Support for international search terms	United States of America	13459736	4/30/2012	US8429183	4/23/2013	Granted	
RPX Corporation	Mechanisms to support object-oriented version control operations	United States of America	13249615	9/30/2011	US8429142	4/23/2013	Granted	
RPX Corporation	Method and system for allocating computing resources	United States of America	13192342	7/27/2011	US8429049	4/23/2013	Granted	
RPX Corporation	Network infrastructure supporting a multi-seller promotion and transaction	United States of America	13451002	4/19/2012	US8428752	4/23/2013	Granted	

	environment							
RPX Corporation	Portable electronic device for receiving and playing feature length movies	United States of America	11356952	2/18/2006	US8424048	4/16/2013	Granted	
RPX Corporation	System and method for maintaining presence and communicating over a computer network using the http protocol	United States of America	11619901	1/4/2007	US8423649	4/16/2013	Granted	
RPX Corporation	System and method for routing a call to a landline communication unit or a wireless communication unit	United States of America	12272443	11/17/2008	US8417230	4/9/2013	Granted	
RPX Corporation	Promotion infrastructure having dual input and dual output interface	United States of America	13449961	4/18/2012	US8407334	3/26/2013	Granted	
RPX Corporation	Promotion infrastructure having third party posting service	United States of America	13449536	4/18/2012	US8407252	3/26/2013	Granted	
RPX Corporation	Promotion infrastructure having dispensing controls	United States of America	13449477	4/18/2012	US8407251	3/26/2013	Granted	
RPX Corporation	Advertising infrastructure supporting cross selling opportunity management	United States of America	13452164	4/20/2012	US8403217	3/26/2013	Granted	
RPX Corporation	Dynamically adaptive network firewalls and method, system and computer program product implementing same	United States of America	13092488	4/22/2011	US8397282	3/12/2013	Granted	
RPX Corporation	Methods and apparatus for transmitting data relating to mobile device	United States of America	13544432	7/9/2012	US8395495	3/12/2013	Granted	
RPX Corporation	Enhanced permutable switching network with multicasting signals for interconnection fabric	United States of America	13179342	7/8/2011	US8395415	3/12/2013	Granted	
RPX Corporation	Apparatus and method for correlation in a gps receiver	United States of America	12311754	10/13/2006	US8391335	3/5/2013	Granted	
RPX Corporation	Logic for synchronizing multiple tasks at multiple locations in an instruction stream	United States of America	13174560	6/30/2011	US8387061	2/26/2013	Granted	
RPX Corporation	Method for synchronizing display of images in a multi-display computer system	United States of America	12393511	2/26/2009	US8384707	2/26/2013	Granted	
RPX Corporation	System and method for providing a secure connection between networked computers	United States of America	13332639	12/21/2011	US8381273	2/19/2013	Granted	
RPX Corporation	Data loss protection switch system and method	United States of America	13109196	5/17/2011	US8381081	2/19/2013	Granted	
RPX Corporation	Information record	United States of America	12790818	5/29/2010	US8380630	2/19/2013	Granted	

Corporation	infrastructure, system and method	States of America						
RPX Corporation	Video recognition in compressed digital video streams	United States of America	13297576	11/16/2011	US8374387	2/12/2013	Granted	
RPX Corporation	Programmable queuing instruction set	United States of America	13365433	2/3/2012	US8370545	2/5/2013	Granted	
RPX Corporation	Systems and methods for voice and data communications including a scalable tdm switch/multiplexer	United States of America	12930605	1/10/2011	US8369317	2/5/2013	Granted	
RPX Corporation	Method and system for locating and communicating with a user of a wireless communication device	United States of America	13083554	4/9/2011	US8368546	2/5/2013	Granted	
RPX Corporation	Video stream modification to defeat detection	United States of America	12660168	2/22/2010	US8365216	1/29/2013	Granted	
RPX Corporation	Web browser accessible search engine that identifies search result maxima through user search flow and result content comparison	United States of America	12368978	2/10/2009	US8364664	1/29/2013	Granted	
RPX Corporation	Network server employing client favorites information and profiling	United States of America	12415729	3/31/2009	US8364659	1/29/2013	Granted	
RPX Corporation	System and method for configuring an ip telephony device	United States of America	09903838	7/11/2001	US8363647	1/29/2013	Granted	
RPX Corporation	Lens positioning system	United States of America	12008347	1/10/2008	US8363324	1/29/2013	Granted	
RPX Corporation	Photon transfer curve test time reduction	United States of America	11784075	4/5/2007	US8363042	1/29/2013	Granted	
RPX Corporation	System and method for double-capture/double-redirect to a different location	United States of America	12619560	11/16/2009	US8356336	1/15/2013	Granted	
RPX Corporation	Location mechanism for mobile device	United States of America	13285205	10/31/2011	US8354923	1/15/2013	Granted	
RPX Corporation	System and method for conducting a fantasy sports competition	United States of America	12120491	5/14/2008	US8353772	1/15/2013	Granted	
RPX Corporation	Semiconductor device	United States of America	12424096	4/15/2009	US8350342	1/8/2013	Granted	
RPX Corporation	Systems and methods for improved multisite management and reporting of converged communication systems and computer systems	United States of America	12802797	6/14/2010	US8346905	1/1/2013	Granted	
RPX Corporation	Method and system for improved internet color	United States of America	12952192	11/22/2010	US8345060	1/1/2013	Granted	
RPX Corporation	Modular routing fabric using switching networks	United States of America	12568042	9/28/2009	US8341580	12/25/2012	Granted	
RPX	Method and system for	United	11213503	8/26/2005	US8336044	12/18/2012	Granted	



Corporation	deploying a software image	States of America						
RPX Corporation	Techniques for real-time adaptive password policies	United States of America	11951524	12/6/2007	US8332918	12/11/2012	Granted	
RPX Corporation	System and method for creating platform-specific self-extracting client packages using a production server	United States of America	11954797	12/12/2007	US8332841	12/11/2012	Granted	
RPX Corporation	Streaming media network system, streaming media service realization method and streaming media service enabler	United States of America	12192968	8/15/2008	US8332527	12/11/2012	Granted	
RPX Corporation	Method and apparatus for protecting information and privacy	United States of America	12768308	4/27/2010	US8327453	12/4/2012	Granted	
RPX Corporation	Single sign on with proxy services	United States of America	11444944	6/1/2006	US8327426	12/4/2012	Granted	
RPX Corporation	Single actuator configuration for a camera module	United States of America	12806322	8/10/2010	US8320756	11/27/2012	Granted	
RPX Corporation	System and method for secure three-party communications	United States of America	12987926	01/10/2011	US8316237B1	11/20/2012	Granted	
RPX Corporation	Method and system for providing dynamic hosted service management across disparate accounts/sites	United States of America	12748063	3/26/2010	US8316131	11/20/2012	Granted	
RPX Corporation	Integration of graphical application content into the graphical scene of another application	United States of America	12987615	1/10/2011	US8314804	11/20/2012	Granted	
RPX Corporation	System for balance distribution of requests across multiple servers using dynamic metrics	United States of America	11202644	8/12/2005	US8302100	10/30/2012	Granted	
RPX Corporation	Hierarchical register file with operand capture ports	United States of America	11932832	10/31/2007	US8296550	10/23/2012	Granted	
RPX Corporation	Medium resource reservation method, service package information obtaining method and apparatus	United States of America	12767361	4/26/2010	US8296444	10/23/2012	Granted	
RPX Corporation	Method and apparatus for accessing a remote location with an optical reader having a programmable memory system	United States of America	12464765	5/12/2009	US8296440	10/23/2012	Granted	
RPX Corporation	Private ip communication network architecture	United States of America	11745405	5/7/2007	US8295271	10/23/2012	Granted	
RPX Corporation	Voip security	United States of America	11694767	3/30/2007	US8295188	10/23/2012	Granted	
RPX Corporation	Server based malware screening	United States of America	12372571	2/17/2009	US8291496	10/16/2012	Granted	
RPX Corporation	Automatic dependency resolution by	United States of America	11215096	8/30/2005	US8291405	10/16/2012	Granted	

	identifying similar machine profiles	America						
RPX Corporation	Techniques for remote resource mounting	United States of America	11073797	3/7/2005	US8290901	10/16/2012	Granted	
RPX Corporation	Manipulating an on-screen object using zones surrounding the object	United States of America	11564798	11/29/2006	US8286101	10/9/2012	Granted	
RPX Corporation	Energy transfer via rolling elements of bearings	United States of America	12799767	4/30/2010	US8282398	10/9/2012	Granted	
RPX Corporation	Techniques for key distribution for use in encrypted communications	United States of America	11348669	2/7/2006	US8281136	10/2/2012	Granted	
RPX Corporation	Intra-system handoff method	United States of America	12476591	6/2/2009	US8280381	10/2/2012	Granted	
RPX Corporation	Hierarchical instruction scheduler facilitating instruction replay	United States of America	11932801	10/31/2007	US8275976	9/25/2012	Granted	
RPX Corporation	Mobile communication device providing integrated access to telephony and internet	United States of America	12250173	10/13/2008	US8274966	9/25/2012	Granted	
RPX Corporation	Miniature camera module	United States of America	12217399	7/3/2008	US8274599	9/25/2012	Granted	
RPX Corporation	Hierarchical store buffer having segmented partitions	United States of America	11932864	10/31/2007	US8266412	9/11/2012	Granted	
RPX Corporation	Automatic identification of related search keywords	United States of America	11371211	03/08/2006	US8266162B2	09/11/2012	Granted	
RPX Corporation	Method and apparatus for locating and reserving items via a web application	United States of America	11262628	10/31/2005	US8265256	9/11/2012	Granted	
RPX Corporation	Method, apparatus and system for controlling multicast bearer resources	United States of America	12428771	4/23/2009	US8264998	9/11/2012	Granted	
RPX Corporation	Stabilized light source	United States of America	12872074	8/31/2010	US8264765	9/11/2012	Granted	
RPX Corporation	Channel service manager with priority queuing	United States of America	11799438	5/1/2007	US8259738	9/4/2012	Granted	
RPX Corporation	System and method for providing a web-based operating system	United States of America	12421917	4/10/2009	US8255483	8/28/2012	Granted	
RPX Corporation	Flexible landscape display system for information display and control	United States of America	12842962	7/23/2010	US8253734	8/28/2012	Granted	
RPX Corporation	Support for international search termstranslate as you crawl	United States of America	12437611	5/8/2009	US8250083	8/21/2012	Granted	
RPX Corporation	Network search engine utilizing client browser favorites	United States of America	12415692	3/31/2009	US8250054	8/21/2012	Granted	
RPX Corporation	Method and apparatus to provide visual	United States of	11106203	4/13/2005	US8250034	8/21/2012	Granted	

	editing	America					
RPX Corporation	Search tree algorithms for packet preclassification	United States of America	12754914	4/6/2010	US8249109	8/21/2012	Granted
RPX Corporation	Method and system for facilitating interactive multimedia experiences	United States of America	12592774	12/2/2009	US8245268	8/14/2012	Granted
RPX Corporation	Scalable non-blocking switching network for programmable logic	United States of America	13165668	6/21/2011	US8242807	8/14/2012	Granted
RPX Corporation	Image sensor including two image sensing devices in a pixel and method for manufacturing the same	United States of America	12574761	10/7/2009	US8237100	8/7/2012	Granted
RPX Corporation	Imaging devices operable with multiple aspect ratios	United States of America	11570610	6/1/2005	US8233052	7/31/2012	Granted
RPX Corporation	Network search engine utilizing client browser activity information	United States of America	12415711	3/31/2009	US8229911	7/24/2012	Granted
RPX Corporation	System and method for dynamic bandwidth provisioning	United States of America	12753390	4/2/2010	US8224983	7/17/2012	Granted
RPX Corporation	Search engine feedback for developing reliable whois database reference for restricted search operation	United States of America	12433575	4/30/2009	US8219533	7/10/2012	Granted
RPX Corporation	Method and apparatus for multi-user multi-input multi-output transmission	United States of America	13115486	5/25/2011	US8219078	7/10/2012	Granted
RPX Corporation	Aperture shading correction	United States of America	12658030	2/1/2010	US8218041	7/10/2012	Granted
RPX Corporation	Digital camera device and methodology for distributed processing and wireless transmission of digital images	United States of America	12119491	5/12/2008	US8212893	7/3/2012	Granted
RPX Corporation	Method and system for single sign-on for multiple remote sites of a computer network	United States of America	12853821	8/10/2010	US8209541	6/26/2012	Granted
RPX Corporation	Methods for managing a plurality of devices using protectable communication protocol, including determination of marketing feedback to assess a response to an advertisement	United States of America	13065049	3/12/2011	US8209412	6/26/2012	Granted
RPX Corporation	Image search engine using context screening parameters	United States of America	12415651	3/31/2009	US8200649	6/12/2012	Granted
RPX Corporation	Secure removable card and a mobile wireless communication device	United States of America	12502897	7/14/2009	US8200281	6/12/2012	Granted
RPX Corporation	Dc converter using motor coil	United States of America	12319593	1/9/2009	US8198845	6/12/2012	Granted
RPX Corporation	Image search engine using image analysis	United States of America	12185796	8/4/2008	US8190623	5/29/2012	Granted

	and categorization	America						
RPX Corporation	Omni-protocol engine for reconfigurable bit-stream processing in high-speed networks	United States of America	12862573	8/24/2010	US8189599	5/29/2012	Granted	
RPX Corporation	Method for measuring multimedia video communication quality	United States of America	11793546	6/23/2006	US8184164	5/22/2012	Granted	
RPX Corporation	Image search engine employing image correlation	United States of America	12185804	8/4/2008	US8180788	5/15/2012	Granted	
RPX Corporation	Drop detection using lens position sensing of camera module	United States of America	12661756	3/23/2010	US8180211	5/15/2012	Granted	
RPX Corporation	Compact flat panel color calibration system	United States of America	12181773	07/29/2008	US8179405B2	05/15/2012	Granted	
RPX Corporation	Apparatus, method and computer program product for harq buffer size reduction	United States of America	12079702	3/27/2008	US8171362	5/1/2012	Granted	
RPX Corporation	Support for international search terms	United States of America	12437600	5/8/2009	US8171041	5/1/2012	Granted	
RPX Corporation	Method and system for performing a search on a network	United States of America	12556046	09/09/2009	US8171009B2	05/01/2012	Granted	
RPX Corporation	Methods, computer networks and computer program products for reducing the vulnerability of user devices	United States of America	12870093	8/27/2010	US8161559	4/17/2012	Granted	
RPX Corporation	Contextual data communication platform	United States of America	12960027	12/3/2010	US8156206	4/10/2012	Granted	
RPX Corporation	Image data processing method and imaging apparatus	United States of America	12218355	7/12/2008	US8155467	4/10/2012	Granted	
RPX Corporation	System, method and apparatus for establishing interactive media session based on ip multimedia subsystem	United States of America	12916164	10/29/2010	US8150975	4/3/2012	Granted	
RPX Corporation	Method and mechanism for vending digital content	United States of America	11852502	9/10/2007	US8145570	3/27/2012	Granted	
RPX Corporation	System, method and mobile unit to sense objects or text and retrieve related information	United States of America	12267568	11/8/2008	US8145256	3/27/2012	Granted	
RPX Corporation	Display system having floating point rasterization and floating point framebuffering	United States of America	13004650	01/11/2011	US8144158B2	03/27/2012	Granted	
RPX Corporation	Techniques for multilingual password challenge response, password reset, and/or password recovery	United States of America	12051086	3/19/2008	US8132265	3/6/2012	Granted	
RPX Corporation	Techniques for recognizing multiple patterns within a string	United States of America	11964163	12/26/2007	US8131758	3/6/2012	Granted	
RPX Corporation	Construction, manipulation, and comparison of a multi-	United States of America	11929678	10/30/2007	US8131741	3/6/2012	Granted	

	dimensional semantic space							
RPX Corporation	Enabling quality voice communications from web page call control	United States of America	11196042	8/3/2005	US8130750	3/6/2012	Granted	
RPX Corporation	Method and system for dynamic memory management	United States of America	11771629	6/29/2007	US8127280	2/28/2012	Granted	
RPX Corporation	Method and system for congestion avoidance in packet switching devices	United States of America	09963487	9/27/2001	US8125902	2/28/2012	Granted	
RPX Corporation	Methods for performing an action relating to the scheduling of an event by performing one or more actions based on a response to a message	United States of America	12612559	11/4/2009	US8122094	2/21/2012	Granted	
RPX Corporation	Provisioning users to multiple agencies	United States of America	11906941	10/4/2007	US8117650	2/14/2012	Granted	
RPX Corporation	System and method for providing access control	United States of America	10683317	10/10/2003	US8117639	2/14/2012	Granted	
RPX Corporation	Media fusion remote access system	United States of America	12842959	7/23/2010	US8117275	2/14/2012	Granted	
RPX Corporation	Semiconductor device with carbon-containing region	United States of America	12716817	3/3/2010	US8110897	2/7/2012	Granted	
RPX Corporation	System and method for providing a secure connection between networked computers	United States of America	12617211	11/12/2009	US8108915	1/31/2012	Granted	
RPX Corporation	System and method for ip telephony paging	United States of America	11503584	8/14/2006	US8107460	1/31/2012	Granted	
RPX Corporation	Permutable switching network with enhanced interconnectivity for multicasting signals	United States of America	12969419	12/15/2010	US8106682	1/31/2012	Granted	
RPX Corporation	Negotiated wireless peripheral security systems	United States of America	11806696	6/4/2007	US8103745	1/24/2012	Granted	
RPX Corporation	Secure synchronization and sharing of secrets	United States of America	11284364	11/21/2005	US8095960	1/10/2012	Granted	
RPX Corporation	Transmission of a continuous datastream through a re-clocked frame-based transport network	United States of America	11138617	5/26/2005	US8094562	1/10/2012	Granted	
RPX Corporation	High-frequency input circuit	United States of America	11439762	5/23/2006	US8093954	1/10/2012	Granted	
RPX Corporation	Identity based network mapping	United States of America	11843008	8/22/2007	US8091119	1/3/2012	Granted	
RPX Corporation	Content management across shared, mobile file systems	United States of America	10961545	10/8/2004	US8090844	1/3/2012	Granted	
RPX Corporation	Media content device and system	United States of America	12244990	10/3/2008	US8090768	1/3/2012	Granted	
RPX Corporation	Exposure system and pattern formation method	United States of America	12749289	3/29/2010	US8088565	1/3/2012	Granted	

RPX Corporation	Search engine using world map with whois database search restrictions	United States of America	12433540	4/30/2009	US8086622	12/27/2011	Granted
RPX Corporation	Camera module having a low-friction movable lens	United States of America	12661752	3/23/2010	US8086099	12/27/2011	Granted
RPX Corporation	Digital-compatible multi-state-sense input	United States of America	10947890	9/22/2004	US8085857	12/27/2011	Granted
RPX Corporation	Method for exchanging semiconductor chip of flip-chip module and flip-chip module suitable therefor	United States of America	12190342	8/12/2008	US8084298	12/27/2011	Granted
RPX Corporation	Detecting content in files	United States of America	11829501	07/27/2007	US8082587B2	12/20/2011	Granted
RPX Corporation	Preview panel	United States of America	11590682	10/31/2006	US8082516B2	12/20/2011	Granted
RPX Corporation	Method and apparatus for an improved file repository	United States of America	12773111	5/4/2010	US8082412	12/20/2011	Granted
RPX Corporation	Pattern formation method	United States of America	12412942	3/27/2009	US8080364	12/20/2011	Granted
RPX Corporation	Distance measurement with capacitive sensor	United States of America	12290386	10/30/2008	US8076948	12/13/2011	Granted
RPX Corporation	Methods for remote monitoring and control of appliances over a computer network	United States of America	11115021	04/25/2005	US8073921B2	12/06/2011	Granted
RPX Corporation	Video entity recognition in compressed digital video streams	United States of America	12804615	7/26/2010	US8073194	12/6/2011	Granted
RPX Corporation	Recursive range controller	United States of America	11403509	4/12/2006	US8073042	12/6/2011	Granted
RPX Corporation	Method and apparatus for configuring signal lines according to idle codes	United States of America	11986580	11/21/2007	US8073005	12/6/2011	Granted
RPX Corporation	System and method for image-based rendering with object proxies	United States of America	13010566	1/20/2011	US8072456	12/6/2011	Granted
RPX Corporation	Antenna arrangement	United States of America	12224231	2/22/2006	US8072390	12/6/2011	Granted
RPX Corporation	System and method for providing a web-based operating system	United States of America	11644709	12/22/2006	US8069220	11/29/2011	Granted
RPX Corporation	Input device for allowing interface to a web site in association with a unique input code	United States of America	12235456	9/22/2008	US8069098	11/29/2011	Granted
RPX Corporation	Language configuration of a user interface	United States of America	10580378	12/9/2004	US8069030	11/29/2011	Granted
RPX Corporation	Method to determine auto focus of a digital camera	United States of America	12660818	3/4/2010	US8064761	11/22/2011	Granted
RPX Corporation	Techniques for securely managing and accelerating data	United States of America	10784440	2/23/2004	US8060926	11/15/2011	Granted

	delivery							
RPX Corporation	Search engine using world map with whois database search restriction	United States of America	11847094	8/29/2007	US8055671	11/8/2011	Granted	
RPX Corporation	Mechanisms to support object-oriented version control operations	United States of America	12133492	6/5/2008	US8055619	11/8/2011	Granted	
RPX Corporation	Location mechanism for mobile device	United States of America	12137920	6/12/2008	US8049611	11/1/2011	Granted	
RPX Corporation	System and method for providing collaboration of a graphics session	United States of America	10112366	3/29/2002	US8046698	10/25/2011	Granted	
RPX Corporation	System and method for discarding frames of an image during transport across a network link	United States of America	10112392	3/29/2002	US8046404	10/25/2011	Granted	
RPX Corporation	Geo targeted commerce	United States of America	11153980	06/16/2005	US8046375B2	10/25/2011	Granted	
RPX Corporation	Method and apparatus for selectively enabling a microprocessor-based system	United States of America	12455673	6/4/2009	US8041933	10/18/2011	Granted	
RPX Corporation	Hybrid branch predictor having negative ovedrride signals	United States of America	11931203	10/31/2007	US8037288	10/11/2011	Granted	
RPX Corporation	Variable impedance sense architecture and method	United States of America	11540996	9/28/2006	US8036846	10/11/2011	Granted	
RPX Corporation	Dynamically adaptive network firewalls and method, system and computer program product implementing same	United States of America	12579566	10/15/2009	US8032933	10/4/2011	Granted	
RPX Corporation	Hierarchical multi-threading processor for executing virtual threads in a time-multiplexed fashion	United States of America	11932874	10/31/2007	US8028152	9/27/2011	Granted	
RPX Corporation	Launching a web site using a passive transponder	United States of America	09614937	7/11/2000	US8028036	9/27/2011	Granted	
RPX Corporation	Flip-chip module and method for the production thereof	United States of America	12065830	9/13/2006	US8026583	9/27/2011	Granted	
RPX Corporation	Wafer mobile phone platform system	United States of America	12384648	4/6/2009	US8023892	9/20/2011	Granted	
RPX Corporation	Semiconductor device and manufacturing method thereof	United States of America	12028601	2/8/2008	US8018004	9/13/2011	Granted	
RPX Corporation	Techniques for monitoring application calls	United States of America	11125874	5/10/2005	US8015549	9/6/2011	Granted	
RPX Corporation	Methods and system for fast session establishment between equipment using H.324 and related telecommunications protocols	United States of America	12157919	06/12/2008	US8009686B2	08/30/2011	Granted	
RPX Corporation	Method and apparatus	United States of America	12251282	10/14/2008	US8005985	8/23/2011	Granted	

Corporation	for utilizing an audibly coded signal to conduct commerce over the internet	States of America					
RPX Corporation	Method of setting up a connection for calls	United States of America	10398069	7/11/2003	US8005068	8/23/2011	Granted
RPX Corporation	System with multiple network protocol support	United States of America	12414001	3/30/2009	US8001256	8/16/2011	Granted
RPX Corporation	Enhanced permutable switching network with multicasting signals for interconnection fabric	United States of America	12491089	6/24/2009	US7999570	8/16/2011	Granted
RPX Corporation	Software downloading using a television broadcast channel	United States of America	12485644	6/16/2009	US7996552	8/9/2011	Granted
RPX Corporation	Method and apparatus for protecting information and privacy	United States of America	12143485	6/20/2008	US7991995	8/2/2011	Granted
RPX Corporation	Method to dynamically create a virtual network	United States of America	12769064	4/28/2010	US7986638	7/26/2011	Granted
RPX Corporation	Scalable non-blocking switching network for programmable logic	United States of America	12955738	11/29/2010	US7986163	7/26/2011	Granted
RPX Corporation	Etching method, semiconductor and fabricating method for the same	United States of America	12766243	4/23/2010	US7985691	7/26/2011	Granted
RPX Corporation	Event source management using a metadata-driven framework	United States of America	11730493	4/2/2007	US7984452	7/19/2011	Granted
RPX Corporation	Secure removable card having a plurality of integrated circuit dies	United States of America	12100400	4/9/2008	US7979717	7/12/2011	Granted
RPX Corporation	Method and apparatus for connecting a user location to one of a plurality of destination locations on a network	United States of America	12255133	10/21/2008	US7979576	7/12/2011	Granted
RPX Corporation	System and method for policing multiple data flows and multi-protocol data flows	United States of America	11231297	9/20/2005	US7978606	7/12/2011	Granted
RPX Corporation	Method and apparatus for capturing an image	United States of America	12321937	1/27/2009	US7978221	7/12/2011	Granted
RPX Corporation	Launching a web site using a passive transponder	United States of America	11877510	10/23/2007	US7975022	7/5/2011	Granted
RPX Corporation	Mobile communication and/or gaming terminal	United States of America	11670723	8/3/2004	US7966046	6/21/2011	Granted
RPX Corporation	Method and apparatus for selectively enabling a microprocessor-based system	United States of America	12455670	6/4/2009	US7962760	6/14/2011	Granted
RPX Corporation	Automated generation, performance monitoring, and evolution of keywords in a paid listing campaign	United States of America	11371209	03/08/2006	US7962463B2	06/14/2011	Granted
RPX Corporation	Method and apparatus	United States of America	10645858	8/20/2003	US7961809	6/14/2011	Granted



Corporation	for multi-user multi-input multi-output transmission	States of America					
RPX Corporation	Impedance matching circuit and method	United States of America	11193791	7/29/2005	US7961000	6/14/2011	Granted
RPX Corporation	Brokering state information and identity among user agents, origin servers, and proxies	United States of America	09484691	1/18/2000	US7954144	5/31/2011	Granted
RPX Corporation	System and method for providing voice messaging with dynamic content	United States of America	11765756	6/20/2007	US7949103	5/24/2011	Granted
RPX Corporation	Pulsed laser light source based on frequency conversion	United States of America	12523763	1/17/2008	US7944958	5/17/2011	Granted
RPX Corporation	Method and apparatus for a wireless tether system	United States of America	12454107	5/12/2009	US7944359	5/17/2011	Granted
RPX Corporation	Barrier film material and pattern formation method using the same	United States of America	12046996	3/12/2008	US7939242	5/10/2011	Granted
RPX Corporation	Method and system of cycle slip framing in a deserializer	United States of America	12103622	4/15/2008	US7936854	5/3/2011	Granted
RPX Corporation	Logic for implementing a dual clock domain read access with predictable timing for bi-directional inputs/outputs	United States of America	10746349	12/24/2003	US7934057	4/26/2011	Granted
RPX Corporation	Method for fabricating a semiconductor device	United States of America	12368693	2/10/2009	US7932187	4/26/2011	Granted
RPX Corporation	Video detection and insertion	United States of America	12710086	2/22/2010	US7930714	4/19/2011	Granted
RPX Corporation	Contextual computing system	United States of America	10631623	7/31/2003	US7930215	4/19/2011	Granted
RPX Corporation	Method and apparatus for completing, securing and conducting an e-commerce transaction	United States of America	09382426	8/24/1999	US7930213	4/19/2011	Granted
RPX Corporation	Method for connecting a wireless device to a remote location on a network	United States of America	11685698	3/13/2007	US7925780	4/12/2011	Granted
RPX Corporation	Data exchange tool	United States of America	12036786	2/25/2008	US7925675	4/12/2011	Granted
RPX Corporation	Use of ray tracing for generating images for auto-stereo displays	United States of America	12752973	4/1/2010	US7925078	4/12/2011	Granted
RPX Corporation	Method and system for minimizing an amount of data needed to test data against subarea boundaries in spatially composited digital video	United States of America	12814306	6/11/2010	US7924287	4/12/2011	Granted
RPX Corporation	Symmetrical range controller circuit and method	United States of America	11541000	9/28/2006	US7920665	4/5/2011	Granted
RPX Corporation	Fast session setup	United States of America	11408810	4/21/2006	US7920493	4/5/2011	Granted

Corporation	extensions to h.324	States of America					
RPX Corporation	System, method and apparatus for establishing interactive media session based on ip multimedia subsystem	United States of America	12192985	8/15/2008	US7917637	3/29/2011	Granted
RPX Corporation	Translation lookaside buffer checkpoint system	United States of America	11340486	1/27/2006	US7913057	3/22/2011	Granted
RPX Corporation	Input device for allowing input of unique digital code to a user's computer to control access thereof to a web site	United States of America	11329425	1/10/2006	US7912961	3/22/2011	Granted
RPX Corporation	Method and apparatus for utilizing a unique transaction code to update a magazine subscription over the internet	United States of America	12405904	3/17/2009	US7912760	3/22/2011	Granted
RPX Corporation	Facility management system and method	United States of America	10830655	4/23/2004	US7912747	3/22/2011	Granted
RPX Corporation	Automatic configuration of equipment software	United States of America	11768838	6/26/2007	US7908467	3/15/2011	Granted
RPX Corporation	Methods for managing a plurality of localized devices in geographically diverse locations	United States of America	10324592	12/19/2002	US7908352	3/15/2011	Granted
RPX Corporation	System providing methods for dynamic customization and personalization of user interface	United States of America	12206727	9/8/2008	US7908221	3/15/2011	Granted
RPX Corporation	Techniques for securely accelerating external domains locally	United States of America	10814983	3/31/2004	US7904951	3/8/2011	Granted
RPX Corporation	Accessing a vendor web site using personal account information retrieved from a credit card company web site	United States of America	12021802	1/29/2008	US7904344	3/8/2011	Granted
RPX Corporation	System and method for image-based rendering with object proxies	United States of America	12050104	3/17/2008	US7903121	3/8/2011	Granted
RPX Corporation	Method and apparatus for utilizing an audible signal to induce a user to select an e-commerce function	United States of America	09382423	8/24/1999	US7900224	3/1/2011	Granted
RPX Corporation	Method and circuit for rapid alignment of signals	United States of America	11985340	11/13/2007	US7893724	2/22/2011	Granted
RPX Corporation	Heterogeneous normalization of data characteristics	United States of America	10375538	2/26/2003	US7890938	2/15/2011	Granted
RPX Corporation	Method and apparatus for accessing a remote location by receiving a product code	United States of America	10857233	5/28/2004	US7886017	2/8/2011	Granted
RPX Corporation	Method and apparatus for porting telephone	United States of America	11019504	12/22/2004	US7881289	2/1/2011	Granted

	numbers of endpoint devices	America						
RPX Corporation	Permutable switching network with enhanced interconnectivity for multicasting signals	United States of America	12720138	3/9/2010	US7876126	1/25/2011	Granted	
RPX Corporation	Contextual data communication platform	United States of America	12016996	1/19/2008	US7873710	1/18/2011	Granted	
RPX Corporation	Cdma transceiver techniques for wireless communications	United States of America	10424543	4/25/2003	US7873021	1/18/2011	Granted	
RPX Corporation	Barrier film material and pattern formation method using the same	United States of America	11949338	12/3/2007	US7871759	1/18/2011	Granted	
RPX Corporation	Input device having positional and scanning capabilities	United States of America	11080338	3/15/2005	US7870189	1/11/2011	Granted	
RPX Corporation	System and method for secure three-party communications	United States of America	11676244	02/16/2007	US7869591B1	01/11/2011	Granted	
RPX Corporation	Systems and methods for voice and data communications including a scalable tdm switch/multiplexer	United States of America	10188244	7/1/2002	US7869424	1/11/2011	Granted	
RPX Corporation	Integration of graphical application content into the graphical scene of another application	United States of America	11368451	3/7/2006	US7868893	1/11/2011	Granted	
RPX Corporation	Biometric encryption and decryption	United States of America	12128501	05/28/2008	US7865728B2	01/04/2011	Granted	
RPX Corporation	Techniques for securing content in an untrusted environment	United States of America	11755837	5/31/2007	US7864960	1/4/2011	Granted	
RPX Corporation	Scalable non-blocking switching network for programmable logic	United States of America	12794685	6/4/2010	US7863932	1/4/2011	Granted	
RPX Corporation	Media publishing system with methodology for parameterized rendering of image regions of interest	United States of America	10956430	9/30/2004	US7860309	12/28/2010	Granted	
RPX Corporation	Methods, systems and computer program products for inventory reconciliation	United States of America	10974873	10/27/2004	US7860221	12/28/2010	Granted	
RPX Corporation	Apparatus, method, and computer program product providing improved uplink pilot transmission schemes	United States of America	11789731	4/24/2007	US7860150	12/28/2010	Granted	
RPX Corporation	Accessing vended products or services using a wireless device	United States of America	12222473	8/11/2008	US7856508	12/21/2010	Granted	
RPX Corporation	System and method for providing interactive images	United States of America	12172754	7/14/2008	US7853648	12/14/2010	Granted	
RPX Corporation	Performing a correlation in reception of a spread spectrum signal	United States of America	11645360	12/21/2006	US7852907	12/14/2010	Granted	
RPX Corporation	Semiconductor device and method for fabricating the same	United States of America	12424894	4/16/2009	US7851891	12/14/2010	Granted	
RPX	Digital camera device	United	12116179	5/6/2008	US7847833	12/7/2010	Granted	

Corporation	providing improved methodology for rapidly taking successive pictures	States of America						
RPX Corporation	On chip test mode implementation	United States of America	11594292	11/8/2006	US7847821	12/7/2010	Granted	
RPX Corporation	Techniques for variable security access information	United States of America	11590121	10/31/2006	US7845003	11/30/2010	Granted	
RPX Corporation	Proxy caching for directory services	United States of America	11888726	8/2/2007	US7844710	11/30/2010	Granted	
RPX Corporation	Method and system for operating a commissioned e-commerce service prover	United States of America	09907520	7/17/2001	US7844513	11/30/2010	Granted	
RPX Corporation	Flexible flow-aging mechanism	United States of America	11479176	6/30/2006	US7817549	10/19/2010	Granted	
RPX Corporation	Syndication methodology to dynamically place digital assets on non-related web sites	United States of America	09923923	08/07/2001	US7814172B2	10/12/2010	Granted	
RPX Corporation	Methods, computer networks and computer program products for reducing the vulnerability of user devices	United States of America	11348048	2/6/2006	US7810159	10/5/2010	Granted	
RPX Corporation	Information record infrastructure, system and method	United States of America	12194519	8/19/2008	US7805377	9/28/2010	Granted	
RPX Corporation	Image capturing device and auto-focus method thereof	United States of America	12166338	7/2/2008	US7801431	9/21/2010	Granted	
RPX Corporation	Scalable non-blocking switching network for programmable logic	United States of America	12472305	5/26/2009	US7768302	8/3/2010	Granted	
RPX Corporation	Method for manufacturing image sensor	United States of America	11943081	11/20/2007	US7763491	7/27/2010	Granted	
RPX Corporation	Detecting known video entities utilizing fingerprints	United States of America	11067606	2/25/2005	US7738704	6/15/2010	Granted	
RPX Corporation	Method to dynamically create a virtual network	United States of America	11228868	9/15/2005	US7733802	6/8/2010	Granted	
RPX Corporation	Etching method, semiconductor and fabricating method for the same	United States of America	11131180	5/18/2005	US7732339	6/8/2010	Granted	
RPX Corporation	Barrier film material and pattern formation method using the same	United States of America	11224980	9/14/2005	US7727707	6/1/2010	Granted	
RPX Corporation	Web browser with multilevel functions	United States of America	10900180	7/28/2004	US7721214	5/18/2010	Granted	
RPX Corporation	Packet preclassification using search tree algorithms	United States of America	11801826	5/11/2007	US7720100	5/18/2010	Granted	
RPX Corporation	Restricting access to a shared resource	United States of America	11240828	09/30/2005	US7716340B2	05/11/2010	Granted	
RPX Corporation	Exposure system and pattern formation method	United States of America	11143666	6/3/2005	US7713685	5/11/2010	Granted	

RPX Corporation	Permutable switching network with enhanced interconnectivity for multicasting signals	United States of America	12327702	12/3/2008	US7705629	4/27/2010	Granted
RPX Corporation	Exposure system and pattern formation method using the same	United States of America	11010422	12/14/2004	US7700268	4/20/2010	Granted
RPX Corporation	Video detection and insertion	United States of America	10790468	3/1/2004	US7694318	4/6/2010	Granted
RPX Corporation	Network routing utilizing a product code	United States of America	11868596	10/8/2007	US7694020	4/6/2010	Granted
RPX Corporation	Method and system for providing dynamic hosted service management across disparate accounts/sites	United States of America	10984959	11/8/2004	US7693993	4/6/2010	Granted
RPX Corporation	System and method for hierarchical policing of flows and subflows of a data stream	United States of America	11257386	10/24/2005	US7688853	3/30/2010	Granted
RPX Corporation	Methods and systems for managing network traffic	United States of America	10409529	4/8/2003	US7680897	3/16/2010	Granted
RPX Corporation	Technique for expanding an input signal	United States of America	11278376	3/31/2006	US7679455	3/16/2010	Granted
RPX Corporation	Packet processing system architecture and method	United States of America	11924523	10/25/2007	US7675915	3/9/2010	Granted
RPX Corporation	System and method of semantic correlation of rich content	United States of America	11616154	12/26/2006	US7672952	3/2/2010	Granted
RPX Corporation	Method and system for delivering from a loudspeaker into a venue	United States of America	11363274	2/28/2006	US7672637	3/2/2010	Granted
RPX Corporation	System and method for double-capture/double-redirect to a different location	United States of America	11076646	3/10/2005	US7665130	2/16/2010	Granted
RPX Corporation	Method and system for updating a software image	United States of America	11213502	8/26/2005	US7664984	2/16/2010	Granted
RPX Corporation	Meta content distribution network	United States of America	10106311	3/26/2002	US7664864	2/16/2010	Granted
RPX Corporation	System and method for monitoring networked devices employing rss functionality	United States of America	11142466	6/2/2005	US7664848	2/16/2010	Granted
RPX Corporation	Smart browser panes	United States of America	10679788	10/06/2003	US7664770B2	02/16/2010	Granted
RPX Corporation	Light emitting array	United States of America	11802356	5/22/2007	US7660500	2/9/2010	Granted
RPX Corporation	System and method for providing dynamic control of a graphics session	United States of America	10112345	3/29/2002	US7659907	2/9/2010	Granted
RPX Corporation	Method and apparatus for multi-user transmission	United States of America	11137142	5/25/2005	US7656961	2/2/2010	Granted
RPX Corporation	Pattern formation method	United States of America	11723056	3/16/2007	US7655385	2/2/2010	Granted

RPX Corporation	Method and mechanism for the creation, maintenance, and comparison of semantic abstracts	United States of America	11563659	11/27/2006	US7653530	1/26/2010	Granted
RPX Corporation	Method and apparatus for automatic configuration of equipment	United States of America	11868598	10/8/2007	US7653446	1/26/2010	Granted
RPX Corporation	System and a method for improving the captured images of digital still cameras	United States of America	11697867	4/9/2007	US7652695	1/26/2010	Granted
RPX Corporation	Method and system for facilitating interactive multimedia experiences	United States of America	10716173	11/18/2003	US7650623	1/19/2010	Granted
RPX Corporation	Method for forming inlaid interconnect	United States of America	12247507	10/8/2008	US7648908	1/19/2010	Granted
RPX Corporation	Vpn failure recovery	United States of America	10222531	8/16/2002	US7647422	1/12/2010	Granted
RPX Corporation	Hybrid branch predictor using component predictors each having confidence and override signals	United States of America	11215835	8/29/2005	US7644258	1/5/2010	Granted
RPX Corporation	User interface and method to facilitate analysis and/or planning of business operation	United States of America	09634723	8/5/2000	US7640179	12/29/2009	Granted
RPX Corporation	Method and apparatus for matching a user's use profile in commerce with a broadcast	United States of America	11872524	10/15/2007	US7636788	12/22/2009	Granted
RPX Corporation	System and method for maintaining presence and communicating over a computer network using the http protocol	United States of America	11619925	1/4/2007	US7636784	12/22/2009	Granted
RPX Corporation	Random number generation	United States of America	10999595	11/30/2004	US7634522	12/15/2009	Granted
RPX Corporation	Positioning receiver	United States of America	11578886	4/22/2005	US7633440	12/15/2009	Granted
RPX Corporation	Federated multiprotocol communication	United States of America	11826057	7/12/2007	US7631105	12/8/2009	Granted
RPX Corporation	System and method for maintaining presence and communicating over a computer network using the http protocol	United States of America	11619914	1/4/2007	US7631087	12/8/2009	Granted
RPX Corporation	Systems and methods for tdm/packet communications using telephony station cards including voltage generators	United States of America	11480255	6/29/2006	US7626981	12/1/2009	Granted
RPX Corporation	System and method for providing a secure connection between	United States of America	10922041	8/19/2004	US7624438	11/24/2009	Granted

	networked computers							
RPX Corporation	Optical sensor calibration	United States of America	11977230	10/23/2007	US7623230	11/24/2009	Granted	
RPX Corporation	Eliding web page content	United States of America	11742918	5/1/2007	US7620898	11/17/2009	Granted	
RPX Corporation	Generating keywords	United States of America	11590668	10/31/2006	US7620627B2	11/17/2009	Granted	
RPX Corporation	System for reducing aliasing on a display device	United States of America	09329557	6/10/1999	US7616200	11/10/2009	Granted	
RPX Corporation	System and method for behavior-based firewall modeling	United States of America	11076719	3/10/2005	US7610621	10/27/2009	Granted	
RPX Corporation	Method and apparatus for utilizing an existing product code to issue a match to a predetermined location on a global network	United States of America	11619139	1/2/2007	US7596786	9/29/2009	Granted	
RPX Corporation	Networked application request servicing offloaded from host	United States of America	10352800	1/27/2003	US7596634	9/29/2009	Granted	
RPX Corporation	Pattern formation method	United States of America	11430993	5/10/2006	US7595142	9/29/2009	Granted	
RPX Corporation	Visual indication of user role in an address bar	United States of America	11703043	2/6/2007	US7594193	9/22/2009	Granted	
RPX Corporation	Method and apparatus for selectively enabling a microprocessor-based system	United States of America	10327015	12/20/2002	US7587613	9/8/2009	Granted	
RPX Corporation	System and method for dynamic bandwidth provisioning	United States of America	10687002	10/16/2003	US7587512	9/8/2009	Granted	
RPX Corporation	System for joining a cluster by cloning configuration	United States of America	10607368	6/25/2003	US7587475	9/8/2009	Granted	
RPX Corporation	Information record infrastructure, system and method	United States of America	09899787	7/5/2001	US7587368	9/8/2009	Granted	
RPX Corporation	Systems and methods for multiple mode voice and data communications using intelligently bridged tdm and packet buses and methods for performing telephony and data functions using the same	United States of America	10325763	12/18/2002	US7586908	9/8/2009	Granted	
RPX Corporation	Federated multiprotocol communication	United States of America	11070893	3/3/2005	US7581030	8/25/2009	Granted	
RPX Corporation	Semiconductor device and manufacturing method thereof	United States of America	11283849	11/22/2005	US7576014	8/18/2009	Granted	
RPX Corporation	Method and apparatus for increasing effective contrast ratio and brightness yields for digital light valve image projectors	United States of America	11804603	5/18/2007	US7575330	8/18/2009	Granted	
RPX Corporation	Method and a system for displaying	United States of America	10877792	6/25/2004	US7565604	7/21/2009	Granted	

	information, and a device	America						
RPX Corporation	Push page user interface in a short range radio enabled mobile terminal	United States of America	10107179	3/28/2002	US7565158	7/21/2009	Granted	
RPX Corporation	Intentional-stance characterization of a general content stream or repository	United States of America	11554476	10/30/2006	US7562011	7/14/2009	Granted	
RPX Corporation	Instruction set for programmable queuing	United States of America	10741132	12/19/2003	US7558890	7/7/2009	Granted	
RPX Corporation	Method for configuring a piece of equipment with the use of an associated machine resolvable code	United States of America	10941052	9/14/2004	US7558838	7/7/2009	Granted	
RPX Corporation	Scalable non-blocking switching network for programmable logic	United States of America	12174080	7/16/2008	US7557613	7/7/2009	Granted	
RPX Corporation	Pattern formation method	United States of America	11253701	10/20/2005	US7556914	7/7/2009	Granted	
RPX Corporation	Simultaneous readout of cmos aps imagers	United States of America	10744566	12/23/2003	US7554590	6/30/2009	Granted	
RPX Corporation	Barrier film material and pattern formation method using the same	United States of America	11058369	2/16/2005	US7550253	6/23/2009	Granted	
RPX Corporation	Software downloading using a television broadcast channel	United States of America	12116027	5/6/2008	US7548988	6/16/2009	Granted	
RPX Corporation	Notebook computer folding ergonomic pad	United States of America	11454292	6/16/2006	US7545634	6/9/2009	Granted	
RPX Corporation	Ternary content addressable memory embedded in a central processing unit	United States of America	09938921	8/24/2001	US7543077	6/2/2009	Granted	
RPX Corporation	Method and apparatus for power savings in a switching regulator	United States of America	11450790	6/9/2006	US7541790	6/2/2009	Granted	
RPX Corporation	Chemically amplified resist material, topcoat film material and pattern formation method using the same	United States of America	11968826	1/3/2008	US7541132	6/2/2009	Granted	
RPX Corporation	System and method for providing transformation of multi-protocol packets in a data stream	United States of America	11224692	9/12/2005	US7539195	5/26/2009	Granted	
RPX Corporation	Method and apparatus for opening and launching a web browser in response to an audible signal	United States of America	11876208	10/22/2007	US7536478	5/19/2009	Granted	
RPX Corporation	Method and apparatus for a wireless tether system	United States of America	11983948	11/13/2007	US7535369	5/19/2009	Granted	
RPX Corporation	System and method for staggering the start time of scheduled actions for a group of networked computers	United States of America	11062454	2/22/2005	US7533188	5/12/2009	Granted	
RPX Corporation	Method and apparatus for accessing a remote	United States of	10996120	11/23/2004	US7533177	5/12/2009	Granted	



	location with an optical reader having a programmable memory system	America					
RPX Corporation	Method and apparatus for encrypting data	United States of America	10356527	02/03/2003	US7529374B2	05/05/2009	Granted
RPX Corporation	Method for interconnecting two locations over a network in response to using a tool	United States of America	10791665	3/2/2004	US7526532	4/28/2009	Granted
RPX Corporation	Pattern formation method	United States of America	11254819	10/21/2005	US7524772	4/28/2009	Granted
RPX Corporation	Control of software interface with information input to access window	United States of America	11039154	1/18/2005	US7523161	4/21/2009	Granted
RPX Corporation	Method and apparatus for the secure storage of audio signals	United States of America	11183359	07/18/2005	US7519836B2	04/14/2009	Granted
RPX Corporation	Hard disk drive cache memory and playback device	United States of America	11637419	12/11/2006	US7519754	4/14/2009	Granted
RPX Corporation	Roaming method between wireless local area network and cellular network	United States of America	10512791	7/19/2005	US7519363	4/14/2009	Granted
RPX Corporation	Reduced complexity multicarrier precoder	United States of America	11357008	2/21/2006	US7519132	4/14/2009	Granted
RPX Corporation	Display system having floating point rasterization and floating point framebuffering	United States of America	09614363	07/12/2000	US7518615B1	04/14/2009	Granted
RPX Corporation	Non-invasive monitoring of the effectiveness of electronic security services	United States of America	10159757	5/29/2002	US7509675	3/24/2009	Granted
RPX Corporation	System and method for comprehensive code generation for system management	United States of America	11078223	3/10/2005	US7509625	3/24/2009	Granted
RPX Corporation	Method and apparatus for utilizing a unique transaction code to update a magazine subscription over the internet	United States of America	09568205	5/9/2000	US7505922	3/17/2009	Granted
RPX Corporation	Order-independent 3d graphics binning architecture	United States of America	10903193	7/30/2004	US7505036	3/17/2009	Granted
RPX Corporation	Cache device and method for generating a virtual radio or television broadcast	United States of America	09513964	2/28/2000	US7496947	2/24/2009	Granted
RPX Corporation	Launching a web site using a portable scanner	United States of America	11093886	3/29/2005	US7496638	2/24/2009	Granted
RPX Corporation	Controlling a pc using a tone from a cellular telephone	United States of America	09602034	6/23/2000	US7493384	2/17/2009	Granted
RPX Corporation	Performing an e-commerce transaction from credit card account information	United States of America	09659167	9/11/2000	US7493283	2/17/2009	Granted

	retrieved from a credit card company web site						
RPX Corporation	Method, apparatus, and article of manufacture for a network monitoring system	United States of America	10428154	5/2/2003	US7490066	2/10/2009	Granted
RPX Corporation	Method and apparatus for allowing a remote site to interact with an intermediate database to facilitate access to the remote site	United States of America	11329416	1/10/2006	US7487259	2/3/2009	Granted
RPX Corporation	Reverse posting of variable document parameters to an otherwise static document template displayed on a browser	United States of America	11317731	12/23/2005	US7483977	1/27/2009	Granted
RPX Corporation	Cell reselection for improving network interconnection	United States of America	10970827	10/20/2004	US7483702	1/27/2009	Granted
RPX Corporation	Methods and system for fast session establishment between equipment using H.324 and related telecommunications protocols	United States of America	11449903	06/09/2006	US7483441B2	01/27/2009	Granted
RPX Corporation	Method and arrangement for displaying hypertext pages	United States of America	10014773	12/11/2001	US7478322	1/13/2009	Granted
RPX Corporation	Converting the format of a portion of an electronic document	United States of America	10868233	6/15/2004	US7475341	1/6/2009	Granted
RPX Corporation	Construction, manipulation, and comparison of a multi-dimensional semantic space	United States of America	11562337	11/21/2006	US7475008	1/6/2009	Granted
RPX Corporation	Pattern formation method through liquid immersion lithography	United States of America	11203161	8/15/2005	US7470501	12/30/2008	Granted
RPX Corporation	Measurement data collection method and portable information device	United States of America	11654686	1/18/2007	US7469197	12/23/2008	Granted
RPX Corporation	Integrated acd and ivr scripting for call center tracking of calls	United States of America	11075352	3/8/2005	US7469047	12/23/2008	Granted
RPX Corporation	System and method for fast gradient pixel clears in graphics rendering	United States of America	10163793	6/6/2002	US7466319	12/16/2008	Granted
RPX Corporation	Picture editing	United States of America	10482114	11/14/2005	US7463787	12/9/2008	Granted
RPX Corporation	Feedback system incorporating slow digital switching for glitch-free state changes	United States of America	11557091	11/6/2006	US7463098	12/9/2008	Granted
RPX Corporation	Interconnection fabric using switching networks in hierarchy	United States of America	10909810	7/29/2004	US7460529	12/2/2008	Granted
RPX Corporation	Scalable method and system for streaming high-resolution media	United States of America	11209765	8/24/2005	US7460126	12/2/2008	Granted

RPX Corporation	System for and method of implementing a closed loop response architecture for electronic commerce	United States of America	09547710	4/11/2000	US7451177	11/11/2008	Granted
RPX Corporation	System, method and mobile unit to sense objects or text and retrieve related information	United States of America	11245606	10/6/2005	US7450960	11/11/2008	Granted
RPX Corporation	Parallel input/output self-test circuit and method	United States of America	11429129	5/4/2006	US7447958	11/4/2008	Granted
RPX Corporation	Method for performing reacquisition in a positioning receiver, and an electronic device	United States of America	10325218	12/20/2002	US7447258	11/4/2008	Granted
RPX Corporation	Compression connection for vertical ic packages	United States of America	11712718	3/1/2007	US7447041	11/4/2008	Granted
RPX Corporation	Data input device, data input method, and data input program	United States of America	10285521	11/1/2002	US7446751	11/4/2008	Granted
RPX Corporation	Multilayer wiring structure of semiconductor device, method of producing said multilayer wiring structure and semiconductor device to be used for reliability evaluation	United States of America	11582982	10/19/2006	US7443031	10/28/2008	Granted
RPX Corporation	Method and apparatus for launching a web browser in response to scanning of product information	United States of America	09382371	8/24/1999	US7440993	10/21/2008	Granted
RPX Corporation	Automated operation and security system for virtual private networks	United States of America	10835060	4/30/2004	US7440452	10/21/2008	Granted
RPX Corporation	Method and apparatus for utilizing an audibly coded signal to conduct commerce over the internet	United States of America	10690485	10/21/2003	US7437475	10/14/2008	Granted
RPX Corporation	Method and apparatus for efficient fault-tolerant disk drive replacement in raid storage systems	United States of America	10860193	6/3/2004	US7434097	10/7/2008	Granted
RPX Corporation	Method and apparatus for just in time raid spare drive pool management	United States of America	10956177	9/30/2004	US7434090	10/7/2008	Granted
RPX Corporation	Interactive, performance based authentication	United States of America	10327340	12/20/2002	US7434059	10/7/2008	Granted
RPX Corporation	Apparatus and system for emergency recording and notification and associated method	United States of America	10880188	6/29/2004	US7433672	10/7/2008	Granted
RPX Corporation	Input device for allowing interface to a web site in association with a unique input code	United States of America	09494924	2/1/2000	US7428499	9/23/2008	Granted

RPX Corporation	Method using database for facilitating computer based access to a location on a network after scanning a barcode disposed on a product	United States of America	09382421	8/24/1999	US7424521	9/9/2008	Granted
RPX Corporation	System providing methods for dynamic customization and personalization of user interface	United States of America	10125049	4/17/2002	US7424459	9/9/2008	Granted
RPX Corporation	Efficient integrated circuit layout scheme to implement a scalable switching network used in interconnection fabric	United States of America	11336014	1/20/2006	US7423453	9/9/2008	Granted
RPX Corporation	Logic for synchronizing multiple tasks at multiple locations in an instruction stream	United States of America	10117781	4/4/2002	US7421693	9/2/2008	Granted
RPX Corporation	Automated adjustment of ip address lease time based on usage	United States of America	10119159	4/10/2002	US7421499	9/2/2008	Granted
RPX Corporation	Scalable non-blocking switching network for programmable logic	United States of America	11823257	6/26/2007	US7417457	8/26/2008	Granted
RPX Corporation	Method for interfacing scanned product information with a source for the product over a global network	United States of America	10984600	11/9/2004	US7415511	8/19/2008	Granted
RPX Corporation	Method for conducting a contest using a network	United States of America	10940585	9/14/2004	US7412666	8/12/2008	Granted
RPX Corporation	Software framework that facilitates design and implementation of database applications	United States of America	10836580	4/30/2004	US7412455	8/12/2008	Granted
RPX Corporation	Method to dynamically determine a user's language for a network	United States of America	10066368	1/30/2002	US7412374	8/12/2008	Granted
RPX Corporation	Automatic discovery of network node addresses	United States of America	10602940	6/24/2003	US7408882	8/5/2008	Granted
RPX Corporation	Method and apparatus for protecting information and privacy	United States of America	10429218	5/2/2003	US7406593	7/29/2008	Granted
RPX Corporation	Capturing advertising requests from a user	United States of America	09599675	06/22/2000	US7406508B1	07/29/2008	Granted
RPX Corporation	Method and apparatus for subscribing and receiving personalized updates in a format customized for handheld mobile communication devices	United States of America	11162110	8/29/2005	US7406329	7/29/2008	Granted
RPX Corporation	Power line communication network	United States of America	10333581	11/18/2003	US7406094	7/29/2008	Granted
RPX Corporation	Miniature camera module	United States of America	10417317	4/16/2003	US7405764	7/29/2008	Granted
RPX Corporation	Compact flat panel	United States of America	11426469	06/26/2006	US7405742B2	07/29/2008	Granted

Corporation	color calibration system	States of America						
RPX Corporation	Scalable router	United States of America	09915332	7/27/2001	US7403530	7/22/2008	Granted	
RPX Corporation	Testing of miniaturized digital camera modules with electrical and/or optical zoom functions	United States of America	10929653	8/30/2004	US7403229	7/22/2008	Granted	
RPX Corporation	Method and apparatus for controlling a user's pc through a broadcast communication to archive information in the user's pc	United States of America	11426897	6/27/2006	US7398548	7/8/2008	Granted	
RPX Corporation	Parallel switching architecture for multiple input/output	United States of America	10457225	6/9/2003	US7397808	7/8/2008	Granted	
RPX Corporation	Light emitting device for visual applications	United States of America	11654557	1/18/2007	US7394841	7/1/2008	Granted	
RPX Corporation	Pattern formation method	United States of America	10715433	11/19/2003	US7393794	7/1/2008	Granted	
RPX Corporation	Portable scanner for enabling automatic commerce transactions	United States of America	09597131	6/20/2000	US7392945	7/1/2008	Granted	
RPX Corporation	Method and system for balancing a traffic load in a half-duplex environment	United States of America	10431208	5/7/2003	US7392318	6/24/2008	Granted	
RPX Corporation	Method for utilizing visual cue in conjunction with web access	United States of America	09705514	11/2/2000	US7392312	6/24/2008	Granted	
RPX Corporation	Method for conducting a contest using a network	United States of America	10690223	10/21/2003	US7392285	6/24/2008	Granted	
RPX Corporation	Returning databases as search results	United States of America	09927015	08/09/2001	US7389307B2	06/17/2008	Granted	
RPX Corporation	Method and mechanism for superpositioning state vectors in a semantic abstract	United States of America	09691629	10/18/2000	US7389225	6/17/2008	Granted	
RPX Corporation	Methods and system for fast session establishment between equipment using H.324 and related telecommunications protocols	United States of America	11449904	06/09/2006	US738873B2	06/17/2008	Granted	
RPX Corporation	Launching a web site using a personal device	United States of America	09659520	9/12/2000	US7386600	6/10/2008	Granted	
RPX Corporation	Method and mechanism for vending digital content	United States of America	11266924	11/4/2005	US7386514	6/10/2008	Granted	
RPX Corporation	Compositing images using logically divided object space	United States of America	11091237	3/28/2005	US7385614	6/10/2008	Granted	
RPX Corporation	State tracking methodology	United States of America	10917427	8/11/2004	US7385608	6/10/2008	Granted	
RPX Corporation	Method and apparatus for tracking user profile and habits on a	United States of America	11023847	12/28/2004	US7383333	6/3/2008	Granted	

	global network						
RPX Corporation	Method and apparatus for accessing a remote location with a reader having a dedicated memory system	United States of America	11692109	3/27/2007	US7383319	6/3/2008	Granted
RPX Corporation	Method for implementing actions based on packet classification and lookup results	United States of America	10463288	6/17/2003	US7382777	6/3/2008	Granted
RPX Corporation	Background processing of data in a storage system	United States of America	11716338	3/9/2007	US7380060	5/27/2008	Granted
RPX Corporation	Accessing a vendor web site using personal account information retrieved from a credit card company web site	United States of America	09659170	9/11/2000	US7379901	5/27/2008	Granted
RPX Corporation	Scheduling store-forwarding of back-to-back multi-channel packet fragments	United States of America	10841774	5/6/2004	US7379467	5/27/2008	Granted
RPX Corporation	Systems and methods for providing configurable caller id information	United States of America	10326718	12/18/2002	US7379455	5/27/2008	Granted
RPX Corporation	Method and apparatus for detecting end point	United States of America	11340540	1/27/2006	US7377992	5/27/2008	Granted
RPX Corporation	Method and system of cycle slip framing in a deserializer	United States of America	10295736	11/15/2002	US7372928	5/13/2008	Granted
RPX Corporation	Digital camera device and methodology for distributed processing and wireless transmission of digital images	United States of America	09434703	11/5/1999	US7372485	5/13/2008	Granted
RPX Corporation	Software downloading using a television broadcast channel	United States of America	09417863	10/13/1999	US7370114	5/6/2008	Granted
RPX Corporation	Apparatus and method for pbx-integrated unified messaging services on a switched backbone	United States of America	09611178	7/6/2000	US7369648	5/6/2008	Granted
RPX Corporation	Digital camera device providing improved methodology for rapidly taking successive pictures	United States of America	09779769	2/7/2001	US7369161	5/6/2008	Granted
RPX Corporation	Enhanced scheme to implement an interconnection fabric using switching networks in hierarchy	United States of America	11392411	3/28/2006	US7368943	5/6/2008	Granted
RPX Corporation	Power converter feedback circuit	United States of America	10657053	9/5/2003	US7368831	5/6/2008	Granted
RPX Corporation	Methods and system for fast session establishment between equipment using h.324 and related telecommunications protocols	United States of America	11672480	2/7/2007	US7366192	4/29/2008	Granted
RPX Corporation	Methods and systems	United States of America	10184483	6/27/2002	US7362700	4/22/2008	Granted

Corporation	for hitless restart of layer 3 packet forwarding	States of America						
RPX Corporation	Method and apparatus for storage command and data router	United States of America	10822971	4/12/2004	US7360010	4/15/2008	Granted	
RPX Corporation	Method and system for minimizing an amount of data needed to test data against subarea boundaries in spatially composited digital video	United States of America	10058050	1/29/2002	US7358974	4/15/2008	Granted	
RPX Corporation	System and method for enabling automated run-time input to network bootstrapping processes	United States of America	11171266	7/1/2005	US7356685	4/8/2008	Granted	
RPX Corporation	Method for interpolation and sharpening of images	United States of America	10685968	10/14/2003	US7352896	4/1/2008	Granted	
RPX Corporation	Acceleration sensor	United States of America	10502454	5/23/2005	US7350424	4/1/2008	Granted	
RPX Corporation	Techniques for shaping data transmission rates	United States of America	10734703	12/12/2003	US7349337	3/25/2008	Granted	
RPX Corporation	System for providing different polarities of power supplied over ethernet cables	United States of America	10953431	9/29/2004	US7346786	3/18/2008	Granted	
RPX Corporation	Key distribution across networks	United States of America	10292484	11/13/2002	US7346771	3/18/2008	Granted	
RPX Corporation	Presentation of web page content based upon computer video resolution	United States of America	11006207	12/7/2004	US7346694	3/18/2008	Granted	
RPX Corporation	Transceiver with accelerated echo canceller convergence	United States of America	10318423	12/13/2002	US7346012	3/18/2008	Granted	
RPX Corporation	Method and apparatus for reducing bandwidth use in a portable device	United States of America	11139203	5/26/2005	US7343152	3/11/2008	Granted	
RPX Corporation	Ultra low power non-volatile memory module	United States of America	11277592	3/27/2006	US7339829	3/4/2008	Granted	
RPX Corporation	Method and system for improved internet color	United States of America	09803219	3/7/2001	US7339595	3/4/2008	Granted	
RPX Corporation	Resist material and pattern formation method	United States of America	11197296	8/5/2005	US7338743	3/4/2008	Granted	
RPX Corporation	Data exchange tool	United States of America	11217136	8/31/2005	US7337192	2/26/2008	Granted	
RPX Corporation	Method and architecture for synchronizing a path generator and/or extractor to a processor	United States of America	10254103	9/24/2002	US7334147	2/19/2008	Granted	
RPX Corporation	Method and system for accessing auxiliary data in power-efficient high-capacity scalable storage system	United States of America	11322787	12/30/2005	US7330931	2/12/2008	Granted	
RPX Corporation	System and method for	United States of America	10035464	12/31/2001	US7330838	2/12/2008	Granted	

Corporation	securing transactional data transmitted over a wireless network in a retail store environment	States of America						
RPX Corporation	High-speed data processing using internal processor memory space	United States of America	09798820	3/2/2001	US7328277	2/5/2008	Granted	
RPX Corporation	Computing housing for blade server with network switch	United States of America	11328501	1/9/2006	US7327563	2/5/2008	Granted	
RPX Corporation	Method and apparatus for introducing differential delay between virtually concatenated tributaries	United States of America	10327250	12/20/2002	US7324562	1/29/2008	Granted	
RPX Corporation	Multiplexing prism cmos imagers to a single data bus	United States of America	10766648	1/27/2004	US7324145	1/29/2008	Granted	
RPX Corporation	Network routing utilizing a product code	United States of America	09379699	8/24/1999	US7321941	1/22/2008	Granted	
RPX Corporation	Method of and system for allocating resources to resource requests	United States of America	10074462	2/11/2002	US7321926	1/22/2008	Granted	
RPX Corporation	Skills based routing method and system for call center	United States of America	11247646	10/10/2005	US7321298	1/22/2008	Granted	
RPX Corporation	Method and apparatus for utilizing an audibly coded signal to conduct commerce over the internet	United States of America	10619822	7/15/2003	US7318106	1/8/2008	Granted	
RPX Corporation	Cmos aps readout scheme that combines reset drain current and the source follower output	United States of America	10753638	1/8/2004	US7317484	1/8/2008	Granted	
RPX Corporation	Contact hole formation method	United States of America	10630681	7/31/2003	US7316972	1/8/2008	Granted	
RPX Corporation	Chemically amplified resist material and pattern formation method using the same	United States of America	11409207	4/24/2006	US7314703	1/1/2008	Granted	
RPX Corporation	Optical reader with ultraviolet wavelength capability	United States of America	10884377	7/2/2004	US7314173	1/1/2008	Granted	
RPX Corporation	System and method for mobile data collection	United States of America	10690114	10/21/2003	US7313759	12/25/2007	Granted	
RPX Corporation	Methods and apparatus for improved memory access	United States of America	11030881	1/10/2005	US7313035	12/25/2007	Granted	
RPX Corporation	Method and apparatus for a wireless tether system	United States of America	11336109	1/20/2006	US7312711	12/25/2007	Granted	
RPX Corporation	Semiconductor device with multilayered metal pattern	United States of America	10945902	9/22/2004	US7312530	12/25/2007	Granted	
RPX Corporation	Method and system for executing multiple tasks in a task set	United States of America	09981883	10/19/2001	US7310803	12/18/2007	Granted	
RPX Corporation	System and method for a trouble shooting portal to allow	United States of America	09650867	8/30/2000	US7310671	12/18/2007	Granted	



	temporary management access to a communication device							
RPX Corporation	Automatic discovery of network core type	United States of America	10603038	6/24/2003	US7310356	12/18/2007	Granted	
RPX Corporation	Information processing apparatus, menu processing method and recording medium storing a menu processing program	United States of America	09765633	1/22/2001	US7308654	12/11/2007	Granted	
RPX Corporation	Method and apparatus for automatic configuration of equipment	United States of America	10828037	4/20/2004	US7308483	12/11/2007	Granted	
RPX Corporation	Systems and methods that identify normal traffic during network attacks		10058442	01/28/2002	US7307999B1	12/11/2007	Granted	
RPX Corporation	Image display control unit, image display control method, image displaying apparatus, and image display control program recorded computer-readable recording medium	United States of America	09826914	4/6/2001	US7307643	12/11/2007	Granted	
RPX Corporation	Internet access via smartphone camera	United States of America	10648771	8/25/2003	US7305435	12/4/2007	Granted	
RPX Corporation	Method and apparatus for configuring signal lines according to idle codes	United States of America	10209142	7/31/2002	US7301961	11/27/2007	Granted	
RPX Corporation	System and method for rasterization through approximation	United States of America	10634379	8/5/2003	US7301540	11/27/2007	Granted	
RPX Corporation	Inferring relations between internet objects that are not connected directly	United States of America	09902421	07/10/2001	US7299270B2	11/20/2007	Granted	
RPX Corporation	Aiming indicia for a bar code and method of use	United States of America	11039370	1/18/2005	US7296746	11/20/2007	Granted	
RPX Corporation	Method, system, and computer program product for blending textures in a texture paging scheme	United States of America	10425735	4/30/2003	US7295212	11/13/2007	Granted	
RPX Corporation	Method and circuit for rapid alignment of signals	United States of America	11088028	3/22/2005	US7295049	11/13/2007	Granted	
RPX Corporation	Electronics enclosure and method of fabricating an electronics enclosure	United States of America	11533494	9/20/2006	US7294007	11/13/2007	Granted	
RPX Corporation	Federated multiprotocol communication	United States of America	11410094	4/25/2006	US7293110	11/6/2007	Granted	
RPX Corporation	Negotiated wireless peripheral security systems	United States of America	11714798	3/7/2007	US7293061	11/6/2007	Granted	
RPX Corporation	Packet processing system architecture and method	United States of America	10814725	3/30/2004	US7292591	11/6/2007	Granted	
RPX	Method and apparatus	United	11000209	12/1/2004	US7291535	11/6/2007	Granted	

Corporation	for fabricating semiconductor device	States of America						
RPX Corporation	Cyclical redundancy check using nullifiers	United States of America	10802519	3/16/2004	US7290196	10/30/2007	Granted	
RPX Corporation	Detection and identification methods for software	United States of America	10815985	4/1/2004	US7287159	10/23/2007	Granted	
RPX Corporation	Method and apparatus for opening and launching a web browser in response to an audible signal	United States of America	11006324	12/7/2004	US7287091	10/23/2007	Granted	
RPX Corporation	Intentional-stance characterization of a general content stream or repository	United States of America	09653713	9/5/2000	US7286977	10/23/2007	Granted	
RPX Corporation	Method and apparatus for receiving a signal	United States of America	10786569	2/24/2004	US7286592	10/23/2007	Granted	
RPX Corporation	Method and apparatus for matching a user's use profile in commerce with a broadcast	United States of America	09382372	8/24/1999	US7284066	10/16/2007	Granted	
RPX Corporation	Method and apparatus for framing a data packet	United States of America	10264684	10/4/2002	US7283565	10/16/2007	Granted	
RPX Corporation	Etching method, semiconductor and fabricating method for the same	United States of America	10679464	10/7/2003	US7282452	10/16/2007	Granted	
RPX Corporation	Methods, data structures, and systems to remotely validate a message	United States of America	10092822	3/6/2002	US7281269	10/9/2007	Granted	
RPX Corporation	Mobile communications device having rotating display and camera	United States of America	10877525	6/25/2004	US7280857	10/9/2007	Granted	
RPX Corporation	Electronic package and circuit board having segmented contact pads	United States of America	11213141	8/26/2005	US7280370	10/9/2007	Granted	
RPX Corporation	Encryption/decryption of stored data using non-accessible, unique encryption key	United States of America	09427250	10/26/1999	US7278016	10/2/2007	Granted	
RPX Corporation	Method and apparatus for co-socket telephony	United States of America	10780350	2/16/2004	US7277424	10/2/2007	Granted	
RPX Corporation	System and method for providing offline web application, page, and form access in a networked environment	United States of America	11016444	12/17/2004	US7272782	9/18/2007	Granted	
RPX Corporation	First-in-first-out (fifo) memory for buffering packet fragments through use of read and write pointers incremented by a unit access and a fraction of the unit access	United States of America	10841865	5/6/2004	US7272675	9/18/2007	Granted	
RPX Corporation	Method and system for accessing a plurality of storage devices	United States of America	10996086	11/22/2004	US7266668	9/4/2007	Granted	
RPX Corporation	Order scheduling	United States of America	09865916	5/24/2001	US7263495	8/28/2007	Granted	

Corporation	system and methodology	States of America						
RPX Corporation	Cmos image sensor and method for fabricating the same	United States of America	11315157	12/23/2005	US7262072	8/28/2007	Granted	
RPX Corporation	Bar code scanner and software interface interlock for performing encrypted handshaking and for disabling the scanner or input device in case of handshaking operation failure	United States of America	10881725	6/29/2004	US7257619	8/14/2007	Granted	
RPX Corporation	Digital id for selecting web browser and use preferences of a user during use of a web application	United States of America	11000175	11/30/2004	US7257614	8/14/2007	Granted	
RPX Corporation	Scalable non-blocking switching network for programmable logic	United States of America	11218419	9/1/2005	US7256614	8/14/2007	Granted	
RPX Corporation	Apparatus and method for storing and distributing encrypted digital content	United States of America	11181621	07/13/2005	US7254837B2	08/07/2007	Granted	
RPX Corporation	Method of shutting down virtual machines in an orderly manner	United States of America	10370210	2/18/2003	US7254733	8/7/2007	Granted	
RPX Corporation	Control of a wireless conference telephone system	United States of America	10475006	12/16/2003	US7254123	8/7/2007	Granted	
RPX Corporation	Focus processing with the distance of different target wheels	United States of America	10929300	8/30/2004	US7248347	7/24/2007	Granted	
RPX Corporation	Negotiated wireless peripheral systems	United States of America	11261657	10/31/2005	US7246149	7/17/2007	Granted	
RPX Corporation	Dynamic allocation of packets to tasks	United States of America	10103436	3/20/2002	US7245616	7/17/2007	Granted	
RPX Corporation	Method for synchronizing a receiver, a system, and an electronic device	United States of America	10439591	5/16/2003	US7242731	7/10/2007	Granted	
RPX Corporation	Optical reader and use	United States of America	11069837	3/1/2005	US7240840	7/10/2007	Granted	
RPX Corporation	CMOS pixel with dual gate PMOS	United States of America	11068283	02/28/2005	US7238993B2	07/03/2007	Granted	
RPX Corporation	Method for fabricating cmos image sensor	United States of America	11172150	6/30/2005	US7238562	7/3/2007	Granted	
RPX Corporation	Apparatus and method for storing and distributing encrypted digital content and functionality suite associated therewith	United States of America	11181608	07/13/2005	US7237268B2	06/26/2007	Granted	
RPX Corporation	Automatic configuration of equipment software	United States of America	10796793	3/9/2004	US7237104	6/26/2007	Granted	
RPX Corporation	Semiconductor device including fine dummy patterns	United States of America	11082853	3/18/2005	US7233052	6/19/2007	Granted	
RPX Corporation	Federated multiprotocol communication	United States of America	11094128	3/31/2005	US7228355	6/5/2007	Granted	

RPX Corporation	Method and apparatus for directing an existing product code to a remote location	United States of America	09382425	8/24/1999	US7228282	6/5/2007	Granted
RPX Corporation	Reducing effects of self-created interference on broadband reception	United States of America	10479789	12/5/2003	US7227917	6/5/2007	Granted
RPX Corporation	High quality antialiased lines with dual sampling pattern	United States of America	10086986	3/1/2002	US7227556	6/5/2007	Granted
RPX Corporation	Asynchronous arbiter with bounded resolution time and predictable output state	United States of America	11019702	12/21/2004	US7225283	5/29/2007	Granted
RPX Corporation	Compressing log files	United States of America	11265491	11/02/2005	US7224297B2	05/29/2007	Granted
RPX Corporation	Workload-adaptive storage system with static allocation	United States of America	11592281	11/1/2006	US7222216	5/22/2007	Granted
RPX Corporation	System and method for determining, storing and utilizing operating mode data of a user telecommunication terminal	United States of America	10686414	10/14/2003	US7221959	5/22/2007	Granted
RPX Corporation	Method, device arrangement, terminal device of a cellular network and a program application in the terminal device for giving a location-based alert	United States of America	10867188	6/14/2004	US7221948	5/22/2007	Granted
RPX Corporation	System and method for indicating a configuration of power provided over an ethernet port	United States of America	10953407	9/29/2004	US7221261	5/22/2007	Granted
RPX Corporation	Method and apparatus for increasing effective contrast ratio and brightness yields for digital light valve image projectors	United States of America	10913744	8/6/2004	US7220006	5/22/2007	Granted
RPX Corporation	Eliding web page content	United States of America	09872893	6/1/2001	US7216297	5/8/2007	Granted
RPX Corporation	Congestion management for packet routers	United States of America	09943004	8/31/2001	US7215639	5/8/2007	Granted
RPX Corporation	Cmos image sensor and method for fabricating the same	United States of America	11001311	12/2/2004	US7214560	5/8/2007	Granted
RPX Corporation	System and method for graphics culling	United States of America	11043038	1/27/2005	US7212204	5/1/2007	Granted
RPX Corporation	Method and apparatus for power-efficient high-capacity scalable storage system	United States of America	11351979	2/9/2006	US7210005	4/24/2007	Granted
RPX Corporation	Method and system for background processing of data in a storage system	United States of America	11108077	4/14/2005	US7210004	4/24/2007	Granted
RPX Corporation	Negotiated wireless peripheral security systems	United States of America	11043110	1/27/2005	US7209946	4/24/2007	Granted

RPX Corporation	Method and apparatus for receiving site selection diversity transmit (ssdt) signal in a wideband code division multiple access (wcdma) system	United States of America	10805994	3/22/2004	US7206577	4/17/2007	Granted
RPX Corporation	Resource allocation for voice processing applications	United States of America	10645051	8/21/2003	US7206387	4/17/2007	Granted
RPX Corporation	Methods and system for fast session establishment between equipment using h.324 and related telecommunications protocols	United States of America	10934077	9/3/2004	US7206316	4/17/2007	Granted
RPX Corporation	Apparatus and method for estimating cardinality when data skew is present	United States of America	10733959	12/11/2003	US7203685	4/10/2007	Granted
RPX Corporation	System and method for defending against distributed denial-of-service attack on active network	United States of America	10640400	8/14/2003	US7200866	4/3/2007	Granted
RPX Corporation	Federated multiprotocol communication	United States of America	11094265	3/31/2005	US7197569	3/27/2007	Granted
RPX Corporation	Method and apparatus for accessing a remote location with an optical reader having a dedicated memory system	United States of America	10874145	6/22/2004	US7197543	3/27/2007	Granted
RPX Corporation	On-line parametric histogram normalization for noise robust speech recognition	United States of America	10136039	4/30/2002	US7197456	3/27/2007	Granted
RPX Corporation	Method and mechanism for the creation, maintenance, and comparison of semantic abstracts	United States of America	09615726	7/13/2000	US7197451	3/27/2007	Granted
RPX Corporation	Semiconductor manufacturing apparatus and pattern formation method	United States of America	10983655	11/9/2004	US7195860	3/27/2007	Granted
RPX Corporation	Method for outputting traffic information in a motor vehicle	United States of America	10999687	11/30/2004	US7193528B2	03/20/2007	Granted
RPX Corporation	Blocking a leakage current	United States of America	11089310	3/24/2005	US7193483	3/20/2007	Granted
RPX Corporation	Native copy instruction for file-access processor with copy-rule-based validation	United States of America	10249416	4/7/2003	US7191318	3/13/2007	Granted
RPX Corporation	Method for connecting a wireless device to a remote location on a network	United States of America	09703705	10/31/2000	US7191247	3/13/2007	Granted
RPX Corporation	Semiconductor device and method for fabricating the same	United States of America	10812880	3/31/2004	US7190045	3/13/2007	Granted
RPX Corporation	Federated	United States of America	11094126	3/31/2005	US7188185	3/6/2007	Granted

Corporation	multiprotocol communication	States of America						
RPX Corporation	System for optimal vibration isolation of disk drives in a data storage device	United States of America	10956248	9/30/2004	US7187543	3/6/2007	Granted	
RPX Corporation	System and method for safely controlling, and receiving status of, power over ethernet	United States of America	10953408	9/29/2004	US7187268	3/6/2007	Granted	
RPX Corporation	Method and apparatus for efficient scalable storage management	United States of America	10393390	3/21/2003	US7181578	2/20/2007	Granted	
RPX Corporation	Database communication system and method for communicating with a database	United States of America	10793113	3/4/2004	US7181474	2/20/2007	Granted	
RPX Corporation	Methods for generating voice prompts using grammatical rules in a system providing TDM voice communications and VOIP communications	United States of America	10683857	10/10/2003	US7181401B2	02/20/2007	Granted	
RPX Corporation	System and method for routing a call to a called party's landline or wireless communication unit	United States of America	10758298	1/14/2004	US7181201	2/20/2007	Granted	
RPX Corporation	System and method for secure three-party communications	United States of America	10106138	03/25/2002	US7181017B1	02/20/2007	Granted	
RPX Corporation	Method for dynamically allocating bandwidth in atm passive optical network	United States of America	10251130	9/20/2002	US7180910	2/20/2007	Granted	
RPX Corporation	System for load balancing based on class of service for wireless communication networks	United States of America	09560294	4/27/2000	US7177649	2/13/2007	Granted	
RPX Corporation	System and method for providing high fidelity color images	United States of America	09439482	11/12/1999	US7177466	2/13/2007	Granted	
RPX Corporation	Autoexposure methodology in a digital camera	United States of America	10123689	4/15/2002	US7176976	2/13/2007	Granted	
RPX Corporation	Phase-locked loop and delay-locked loop including differential delay cells having differential control inputs	United States of America	10876730	6/25/2004	US7176737	2/13/2007	Granted	
RPX Corporation	Red/green pixel with simultaneous exposure and improved mtf	United States of America	10813864	3/31/2004	US7176544	2/13/2007	Granted	
RPX Corporation	Communication log for an electronic device	United States of America	10318317	12/12/2002	US7174516	2/6/2007	Granted	
RPX Corporation	High-speed modem with uplink remote-echo canceller	United States of America	10613019	7/7/2003	US7173962	2/6/2007	Granted	
RPX Corporation	System using http protocol for maintaining and	United States of America	09709909	11/9/2000	US7171473	1/30/2007	Granted	

	updating on-line presence information of new user in user table and group table						
RPX Corporation	Outer and exception join to inner join normalization	United States of America	10687286	10/16/2003	US7171398	1/30/2007	Granted
RPX Corporation	System and method for allocating computing resources	United States of America	10174718	6/18/2002	US7168049	1/23/2007	Granted
RPX Corporation	Manipulating an on-screen object using zones surrounding the object	United States of America	10629129	7/28/2003	US7164410	1/16/2007	Granted
RPX Corporation	Routing device and method for a powerline network	United States of America	10135342	4/30/2002	US7164346	1/16/2007	Granted
RPX Corporation	Technique for multiprotocol transport using mpls (multi-protocol label switching)	United States of America	10021992	12/12/2001	US7161946	1/9/2007	Granted
RPX Corporation	Method and apparatus for utilizing an existing product code to issue a match to a predetermined location on a global network	United States of America	09382375	8/24/1999	US7159037	1/2/2007	Granted
RPX Corporation	System broadcasting arp request from a server using a different ip address to balance incoming traffic load from clients via different network interface cards	United States of America	10378222	3/3/2003	US7159034	1/2/2007	Granted
RPX Corporation	Clock data recovery method and circuit for network communication	United States of America	10282498	10/28/2002	US7158601	1/2/2007	Granted
RPX Corporation	High-speed adaptive interconnect architecture with nonlinear error functions	United States of America	10732408	12/11/2003	US7158566	1/2/2007	Granted
RPX Corporation	Test system for camera modules	United States of America	10434743	5/8/2003	US7158170	1/2/2007	Granted
RPX Corporation	System and method for providing a web-based operating system	United States of America	09686136	10/11/2000	US7155490	12/26/2006	Granted
RPX Corporation	Internet delivery of digitized photographs	United States of America	09814009	3/20/2001	US7154621	12/26/2006	Granted
RPX Corporation	Method for a workload-adaptive high performance storage system with data protection	United States of America	10691838	10/23/2003	US7152142B1	12/19/2006	Granted
RPX Corporation	Construction, manipulation, and comparison of a multi-dimensional semantic space	United States of America	09512963	2/25/2000	US7152031	12/19/2006	Granted
RPX Corporation	Multi-service queuing method and apparatus that provides exhaustive arbitration, load balancing, and	United States of America	09957751	9/21/2001	US7151744	12/19/2006	Granted

	support for rapid port failover							
RPX Corporation	System and method for distributing selected objects from a source database to a destination database	United States of America	10175843	6/21/2002	US7149751	12/12/2006	Granted	
RPX Corporation	Communicating data using wideband communications	United States of America	10488085	8/4/2004	US7149252	12/12/2006	Granted	
RPX Corporation	Method and systems for licensing electronic data	United States of America	09915030	7/25/2001	US7146340	12/5/2006	Granted	
RPX Corporation	Method and apparatus of packaging disk drives in a data storage system	United States of America	10680406	10/8/2003	US7145770	12/5/2006	Granted	
RPX Corporation	Semiconductor device and method for fabricating the same	United States of America	10958282	10/6/2004	US7144761	12/5/2006	Granted	
RPX Corporation	Method and apparatus providing for delivery of streaming media	United States of America	09951169	9/12/2001	US7142509	11/28/2006	Granted	
RPX Corporation	Feedback system incorporating slow digital switching for glitch-free state changes	United States of America	10180833	6/25/2002	US7133485	11/7/2006	Granted	
RPX Corporation	Methods and apparatus for protecting information	United States of America	10737077	12/16/2003	US7131144	10/31/2006	Granted	
RPX Corporation	Cluster failover via distributed configuration repository	United States of America	10213651	8/6/2002	US7124320	10/17/2006	Granted	
RPX Corporation	Verification system for confidential data input	United States of America	09799419	3/5/2001	US7114077	9/26/2006	Granted	
RPX Corporation	In, or relating to, vdsl	United States of America	09622523	12/7/2000	US7113549	9/26/2006	Granted	
RPX Corporation	Digital network processor-based multi-protocol flow control	United States of America	09949417	9/7/2001	US7095753	8/22/2006	Granted	
RPX Corporation	Method for fabricating semiconductor device	United States of America	10662288	9/16/2003	US7094639	8/22/2006	Granted	
RPX Corporation	Method and apparatus for node adding decision support in a wireless network	United States of America	10487607	2/20/2004	US7092715	8/15/2006	Granted	
RPX Corporation	Dynamic compiler and method of compiling code to generate dominant path and to handle exceptions	United States of America	09858827	5/16/2001	US7080366	7/18/2006	Granted	
RPX Corporation	Method of rebooting a multi-device cluster while maintaining cluster operation	United States of America	10606645	6/25/2003	US7076645	7/11/2006	Granted	
RPX Corporation	Multi-threaded fragment patching	United States of America	09858578	5/16/2001	US7069549	6/27/2006	Granted	
RPX Corporation	System and method for routing ip packets	United States of America	09903836	7/11/2001	US7068647	6/27/2006	Granted	
RPX Corporation	System and method for performing ip telephony including	United States of America	09903822	7/11/2001	US7068646	6/27/2006	Granted	



	internal and external call sessions						
RPX Corporation	Method and apparatus for a wireless tether system	United States of America	10655788	9/6/2003	US7061385	6/13/2006	Granted
RPX Corporation	Direct invocation of methods using class loader	United States of America	09859135	5/16/2001	US7058929	6/6/2006	Granted
RPX Corporation	Common on-screen zone for menu activation and stroke input	United States of America	10629052	7/28/2003	US7055110	5/30/2006	Granted
RPX Corporation	Method and apparatus for a distributed firewall	United States of America	09343464	6/30/1999	US7051365	5/23/2006	Granted
RPX Corporation	Provisional ip-aware virtual paths over networks	United States of America	09427215	10/26/1999	US7046665	5/16/2006	Granted
RPX Corporation	System and method for hierarchical policing of flows and subflows of a data stream	United States of America	09849810	5/4/2001	US7042848	5/9/2006	Granted
RPX Corporation	Method and system for handling device driver interrupts	United States of America	09859134	5/16/2001	US7039738	5/2/2006	Granted
RPX Corporation	Method for measuring temperature, annealing method and method for fabricating semiconductor device	United States of America	10343762	2/4/2003	US7037733	5/2/2006	Granted
RPX Corporation	Error monitoring system and method	United States of America	10246952	9/19/2002	US7036070	4/25/2006	Granted
RPX Corporation	Method and apparatus for power-efficient high-capacity scalable storage system	United States of America	10607932	6/26/2003	US7035972	4/25/2006	Granted
RPX Corporation	Federated multiprotocol communication	United States of America	09698882	10/27/2000	US7035932	4/25/2006	Granted
RPX Corporation	Federated multiprotocol communication	United States of America	11094261	3/31/2005	US7032009	4/18/2006	Granted
RPX Corporation	Guided natural language interface system and method	United States of America	09634108	8/8/2000	US7027975	4/11/2006	Granted
RPX Corporation	Data processing recovery system and method spanning multiple operating system	United States of America	10267492	10/09/2002	US7024581B1	04/04/2006	Granted
RPX Corporation	Apparatus and protocol for exception propagation in serial transport block coded interfaces	United States of America	09814194	3/21/2001	US7016430	3/21/2006	Granted
RPX Corporation	Semiconductor device and method for fabricating the same	United States of America	10756465	1/14/2004	US7015554	3/21/2006	Granted
RPX Corporation	Method and system for generating a secure wireless link between a handset and base station	United States of America	10834286	04/28/2004	US7013153B2	03/14/2006	Granted
RPX Corporation	Method of controlling a computer using an embedded unique code in the content of dvd media	United States of America	09378218	8/19/1999	US7010577	3/7/2006	Granted

RPX Corporation	Adaptive buffer partitioning method for shared buffer switch and switch therefor	United States of America	10055454	1/22/2002	US7009988	3/7/2006	Granted
RPX Corporation	Method and structure for reducing search times	United States of America	09858426	5/16/2001	US7007005	2/28/2006	Granted
RPX Corporation	Systems and methods for voice and data communications including hybrid key system/pbx functionality	United States of America	10188002	7/1/2002	US7006614	2/28/2006	Granted
RPX Corporation	Production method of semiconductor device	United States of America	10643980	8/20/2003	US7001841	2/21/2006	Granted
RPX Corporation	System and method for distributing a selected object and for automatically distributing the objects that are associated with the selected object	United States of America	10175877	6/21/2002	US7000017	2/14/2006	Granted
RPX Corporation	Semiconductor memory device	United States of America	10917308	8/13/2004	US6999367	2/14/2006	Granted
RPX Corporation	Method and mechanism for vending digital content	United States of America	09752348	12/29/2000	US6993508	1/31/2006	Granted
RPX Corporation	Pattern formation method	United States of America	10643929	8/20/2003	US6992015	1/31/2006	Granted
RPX Corporation	Method for a proactive browser system for implementing background frame maintenance and asynchronous frame submissions	United States of America	10197676	7/16/2002	US6990534	1/24/2006	Granted
RPX Corporation	Patient-controlled medical information system and method	United States of America	09525244	3/15/2000	US6988075	1/17/2006	Granted
RPX Corporation	Method and apparatus for allowing a remote site to interact with an intermediate database to facilitate access to the remote site	United States of America	10664201	9/16/2003	US6985962	1/10/2006	Granted
RPX Corporation	Input device for allowing input of a unique digital code to a user's computer to control access thereof to a web site	United States of America	09491142	1/26/2000	US6985954	1/10/2006	Granted
RPX Corporation	Federated multiprotocol communication	United States of America	11055066	2/11/2005	US6985931	1/10/2006	Granted
RPX Corporation	Method and apparatus for reducing bandwidth use in a portable device	United States of America	09588280	6/5/2000	US6985721	1/10/2006	Granted
RPX Corporation	Computing housing for blade server with network switch	United States of America	10930046	8/30/2004	US6985357	1/10/2006	Granted
RPX Corporation	Audible designation for a node on a communication network	United States of America	09494956	2/1/2000	US6981059	12/27/2005	Granted

RPX Corporation	Optimized data transfer and storage architecture for mpeg-4 motion estimation on multi-media processors	United States of America	10766159	1/27/2004	US6975769	12/13/2005	Granted
RPX Corporation	Scalable non-blocking switching network for programmable logic	United States of America	10814943	3/30/2004	US6975139	12/13/2005	Granted
RPX Corporation	Method and apparatus for delivering information from a remote site on a network based on statistical information	United States of America	09539596	3/31/2000	US6973438	12/6/2005	Granted
RPX Corporation	Enabling quality voice communications from web page call control	United States of America	09411663	10/4/1999	US6973091	12/6/2005	Granted
RPX Corporation	Method for conducting a contest using a network	United States of America	09594651	6/15/2000	US6970916	11/29/2005	Granted
RPX Corporation	Method and apparatus for embedding routing information to a remote web site in an audio/video track	United States of America	09378222	8/19/1999	US6970914	11/29/2005	Granted
RPX Corporation	Method and system for altering a sequence number assignment pattern while preserving integrity and high concurrency in a multi-system shared disk environment	United States of America	10439686	5/16/2003	US6968432	11/22/2005	Granted
RPX Corporation	Negotiated wireless peripheral systems	United States of America	09935116	8/22/2001	US6965914	11/15/2005	Granted
RPX Corporation	Method and system for fast image correction	United States of America	09815236	3/22/2001	US6963668	11/8/2005	Granted
RPX Corporation	Semiconductor device and method for fabricating the same	United States of America	10337338	1/7/2003	US6962853	11/8/2005	Granted
RPX Corporation	System and apparatus for connecting a wireless device to a remote location on a network	United States of America	09703465	10/31/2000	US6961555	11/1/2005	Granted
RPX Corporation	Integrated circuits having post-silicon adjustment control	United States of America	10707450	12/15/2003	US6957163	10/18/2005	Granted
RPX Corporation	Method for forming a semiconductor device	United States of America	10314159	12/9/2002	US6955973	10/18/2005	Granted
RPX Corporation	Xml-based integrated services parsing	United States of America	09865232	5/25/2001	US6950866	9/27/2005	Granted
RPX Corporation	System and method for providing transformation of multi-protocol packets in a data stream	United States of America	09849804	5/4/2001	US6944168	9/13/2005	Granted
RPX Corporation	Smart card reader	United States of America	10049199	5/9/2003	US6942147	9/13/2005	Granted
RPX Corporation	Xml-based integrated services event system	United States of America	09865257	5/25/2001	US6941560	9/6/2005	Granted

RPX Corporation	System for balance distribution of requests across multiple servers using dynamic metrics	United States of America	09765766	1/18/2001	US6938256	8/30/2005	Granted
RPX Corporation	Method and apparatus for multi-user transmission	United States of America	09552150	4/18/2000	US6937665	8/30/2005	Granted
RPX Corporation	Size reduction method and device for compressed images	United States of America	10090436	2/28/2002	US6931159	8/16/2005	Granted
RPX Corporation	Method of product promotion	United States of America	09483487	1/14/2000	US6928413	8/9/2005	Granted
RPX Corporation	Low-contention grey object sets for concurrent, marking garbage collection	United States of America	09858826	5/16/2001	US6925637	8/2/2005	Granted
RPX Corporation	System and method for image-based rendering with proxy surface animation	United States of America	10688936	10/21/2003	US6924805	8/2/2005	Granted
RPX Corporation	Method and system for detecting, timing, and correcting impulse noise	United States of America	09866870	5/29/2001	US6920194	7/19/2005	Granted
RPX Corporation	Cell selection method	United States of America	09914307	11/21/2001	US6917807	7/12/2005	Granted
RPX Corporation	System and method for automatically determining recommended committed information rate in a frame relay network	United States of America	09338812	6/23/1999	US6912575	6/28/2005	Granted
RPX Corporation	Method and apparatus for auto-detection of a configuration of a flash memory	United States of America	10138901	5/2/2002	US6907496	6/14/2005	Granted
RPX Corporation	Method and apparatus for providing multi-protocol, multi-stage, real-time frame classification	United States of America	09849913	5/4/2001	US6904057	6/7/2005	Granted
RPX Corporation	Method and system of cache management using spatial separation of outliers	United States of America	09859072	5/16/2001	US6901587	5/31/2005	Granted
RPX Corporation	Negotiated wireless peripheral security systems	United States of America	09943214	8/30/2001	US6901429	5/31/2005	Granted
RPX Corporation	System and method for policing multiple data flows and multi-protocol data flows	United States of America	09849914	5/4/2001	US6901052	5/31/2005	Granted
RPX Corporation	Primitive culling apparatus and method	United States of America	10716186	11/18/2003	US6900818B1	05/31/2005	Granted
RPX Corporation	Low voltage differential signal driver circuit and method	United States of America	10288003	11/4/2002	US6900663	5/31/2005	Granted
RPX Corporation	Tunneling floating gate aps pixel	United States of America	10627796	7/25/2003	US6897519	5/24/2005	Granted
RPX Corporation	Method for noise energy estimation in tdma systems	United States of America	10001156	11/1/2001	US6895044	5/17/2005	Granted
RPX Corporation	Multisampling	United States of America	10786430	2/25/2004	US6894700	5/17/2005	Granted

Corporation	dithering with shuffle tables	States of America					
RPX Corporation	Protected ip telephony calls using encryption	United States of America	09475661	12/30/1999	US6889321	5/3/2005	Granted
RPX Corporation	System and method for subscriber loop testing	United States of America	09907870	7/18/2001	US6885730	4/26/2005	Granted
RPX Corporation	System, method, and computer program product for near-real time load balancing across multiple rendering pipelines	United States of America	10330217	12/30/2002	US6885376	4/26/2005	Granted
RPX Corporation	Resistance load source follower circuit	United States of America	10709481	5/8/2004	US6885234	4/26/2005	Granted
RPX Corporation	Method for determining a position of an electronic device using a satellite positioning system	United States of America	10438746	5/15/2003	US6882306	4/19/2005	Granted
RPX Corporation	Method and apparatus for using name spaces in a graphical user interface	United States of America	09553586	4/20/2000	US6880129	4/12/2005	Granted
RPX Corporation	Methods and apparatus for improved memory access	United States of America	10284198	10/31/2002	US6879526	4/12/2005	Granted
RPX Corporation	Aps pixel with reset noise suppression and programmable binning capability	United States of America	10339189	1/9/2003	US6878918	4/12/2005	Granted
RPX Corporation	Launching a web site using a portable scanner	United States of America	09615686	6/21/2000	US6877032	4/5/2005	Granted
RPX Corporation	Efficient test structure for non-volatile memory and other semiconductor integrated circuits	United States of America	09975064	10/10/2001	US6871307	3/22/2005	Granted
RPX Corporation	CMOS pixel with dual gate PMOS	United States of America	10339190	01/09/2003	US6870209B2	03/22/2005	Granted
RPX Corporation	Input device having positional and scanning capabilities	United States of America	09490336	1/24/2000	US6868433	3/15/2005	Granted
RPX Corporation	Systems and methods for providing voice/data communication systems and voice/data communications	United States of America	09680634	10/6/2000	US6868070	3/15/2005	Granted
RPX Corporation	Hash table dispatch mechanism for interface methods	United States of America	09859133	5/16/2001	US6862728	3/1/2005	Granted
RPX Corporation	Optical reader and use	United States of America	09580848	5/30/2000	US6860424	3/1/2005	Granted
RPX Corporation	System and method for statistical control of power dissipation with host enforcement	United States of America	09780775	2/9/2001	US6856597	2/15/2005	Granted
RPX Corporation	Optical switch cascading system and method with variable incidence angle correction	United States of America	10155748	5/24/2002	US6853762	2/8/2005	Granted
RPX Corporation	Semiconductor device	United States of America	10642655	8/19/2003	US6852610	2/8/2005	Granted

Corporation	and method for manufacturing the same	States of America					
RPX Corporation	Method and system for characterizing color display monitor output	United States of America	09809385	3/15/2001	US6847376	1/25/2005	Granted
RPX Corporation	Planar byte memory organization with linear access	United States of America	10080284	2/20/2002	US6847370	1/25/2005	Granted
RPX Corporation	Web site access manual of a character string into a software interface	United States of America	09496790	2/2/2000	US6845388	1/18/2005	Granted
RPX Corporation	Aiming indicia for a bar code and method of use	United States of America	09580793	5/30/2000	US6843417	1/18/2005	Granted
RPX Corporation	Method and system for efficiently matching events with subscribers in a content-based publish-subscribe system	United States of America	09616498	7/14/2000	US6839730	1/4/2005	Granted
RPX Corporation	Method and apparatus for tracking user profile and habits on a global network	United States of America	09382424	8/24/1999	US6836799	12/28/2004	Granted
RPX Corporation	Caller id display system for telephony over a packet switched network	United States of America	10115807	4/4/2002	US6831969	12/14/2004	Granted
RPX Corporation	Method and apparatus for opening and launching a web browser in response to an audible signal	United States of America	09382427	8/24/1999	US6829650	12/7/2004	Granted
RPX Corporation	Presentation of web page content based upon computer video resolutions	United States of America	09417405	10/13/1999	US6829646	12/7/2004	Granted
RPX Corporation	Digital id for selecting web browser and use preferences of a user during use of a web application	United States of America	09382420	8/24/1999	US6826592	11/30/2004	Granted
RPX Corporation	Digital camera device with methodology for efficient color conversion	United States of America	09489511	1/21/2000	US6825876	11/30/2004	Granted
RPX Corporation	Method and apparatus for accessing a remote location with an optical reader having a programmable memory system	United States of America	09608859	6/30/2000	US6823388	11/23/2004	Granted
RPX Corporation	Methods and apparatus for securely collecting customer service agent data in a multi-tenant environment	United States of America	09419038	10/15/1999	US6823384	11/23/2004	Granted
RPX Corporation	Ion implantation methods and transistor cell layout for fin type transistors	United States of America	10065955	12/4/2002	US6821834	11/23/2004	Granted
RPX Corporation	System and method for displaying an image using display distortion correction	United States of America	09569655	5/12/2000	US6819333	11/16/2004	Granted
RPX Corporation	Method and system for providing dynamic	United States of	09710095	11/10/2000	US6816905	11/9/2004	Granted

	hosted service management across disparate accounts/sites	America						
RPX Corporation	Method for interfacing scanned product information with a source for the product over a global network	United States of America	09496222	2/1/2000	US6816894	11/9/2004	Granted	
RPX Corporation	Phase correction for multiple processors	United States of America	09633091	8/4/2000	US6816561	11/9/2004	Granted	
RPX Corporation	Ip conference call waiting	United States of America	09475142	12/30/1999	US6816469	11/9/2004	Granted	
RPX Corporation	Inertia clutch mechanism in motors to prevent backdrive	United States of America	10616172	7/9/2003	US6814209	11/9/2004	Granted	
RPX Corporation	Personal area network with automatic attachment and detachment		09535591	03/27/2000	US6804232B1	10/12/2004	Granted	
RPX Corporation	Method for configuring a piece of equipment with the use of an associated machine resolvable code	United States of America	09568150	5/10/2000	US6792452	9/14/2004	Granted	
RPX Corporation	Data-based control of integrated circuits	United States of America	10063450	4/24/2002	US6792379	9/14/2004	Granted	
RPX Corporation	Method for conducting a contest using a network	United States of America	09594276	6/15/2000	US6791588	9/14/2004	Granted	
RPX Corporation	Complementary non-volatile memory cell	United States of America	10282856	10/28/2002	US6788576	9/7/2004	Granted	
RPX Corporation	Motion picture electronic watermark system	United States of America	09266526	3/11/1999	US6785398	8/31/2004	Granted	
RPX Corporation	Transfer of ss7 signalling message contents over packet broadcasting network (lan) from multiple signalling points to single point (multiple point-to-point)	United States of America	09481720	1/12/2000	US6781954	8/24/2004	Granted	
RPX Corporation	Method of fabricating semiconductor device	United States of America	10222855	8/19/2002	US6780779	8/24/2004	Granted	
RPX Corporation	Querying databases using database pools	United States of America	09814139	03/21/2001	US6775661B1	08/10/2004	Granted	
RPX Corporation	Xml-based integrated services bridging	United States of America	09878710	6/11/2001	US6772206	8/3/2004	Granted	
RPX Corporation	Active cell crosspoint switch	United States of America	09687724	10/12/2000	US6771162	8/3/2004	Granted	
RPX Corporation	Low voltage receiver circuit and method for shifting the differential input signals of the receiver depending on a common mode voltage of the input signals	United States of America	10293392	11/13/2002	US6768352	7/27/2004	Granted	
RPX	Method and system of	United	09859161	5/16/2001	US6766513	7/20/2004	Granted	

Corporation	memory management using stack walking	States of America						
RPX Corporation	System and method for reordering fragment data based upon rasterization direction	United States of America	10166155	6/10/2002	US6766410	7/20/2004	Granted	
RPX Corporation	Method and system for a random number generator	United States of America	09773195	1/31/2001	US6766312	7/20/2004	Granted	
RPX Corporation	Delay-locked loop for differential clock signals	United States of America	09660860	9/13/2000	US6765976	7/20/2004	Granted	
RPX Corporation	Multisample dithering with shuffle tables	United States of America	10230500	8/29/2002	US6765588	7/20/2004	Granted	
RPX Corporation	Complementary source follower circuit controlled by back bias voltage	United States of America	10604339	7/13/2003	US6765430	7/20/2004	Granted	
RPX Corporation	Maintaining a soft-token private key store in a distributed environment	United States of America	09660903	9/13/2000	US6760843	7/6/2004	Granted	
RPX Corporation	Optical reader with ultraviolet wavelength capability	United States of America	09598886	6/21/2000	US6758398	7/6/2004	Granted	
RPX Corporation	Bar code scanner and software interface interlock for performing encrypted handshaking and for disabling the scanner in case of handshaking operation failure	United States of America	09496208	2/2/2000	US6757715	6/29/2004	Granted	
RPX Corporation	Method and apparatus for accessing a remote location with an optical reader having a dedicated memory system	United States of America	09602468	6/23/2000	US6754698	6/22/2004	Granted	
RPX Corporation	Impedance tuning circuit	United States of America	10180783	6/25/2002	US6753738	6/22/2004	Granted	
RPX Corporation	Automated operation and security system for virtual private networks	United States of America	09359570	7/22/1999	US6751729	6/15/2004	Granted	
RPX Corporation	System and method for maintaining and recovering data consistency across multiple instances of a database	United States of America	09730618	12/5/2000	US6751636	6/15/2004	Granted	
RPX Corporation	Decision feedback analyzer with filter compensation	United States of America	09521495	3/9/2000	US6751255	6/15/2004	Granted	
RPX Corporation	High-voltage semiconductor device	United States of America	09736230	12/15/2000	US6750506	6/15/2004	Granted	
RPX Corporation	Method of manufacturing electronic device	United States of America	10043257	1/14/2002	US6750149	6/15/2004	Granted	
RPX Corporation	Method and apparatus for accessing a remote location by scanning an optical code	United States of America	09378221	8/19/1999	US6745234	6/1/2004	Granted	
RPX Corporation	High fidelity image delivery with color correction notification	United States of America	09603445	6/23/2000	US6744448	6/1/2004	Granted	



RPX Corporation	Database communication system and method for communicating with a database	United States of America	09725597	11/29/2000	US6738775	5/18/2004	Granted
RPX Corporation	Speech recognition system for interactively gathering and storing verbal information to generate documents	United States of America	09828087	4/6/2001	US6738740	5/18/2004	Granted
RPX Corporation	Apparatus for providing videodriving capability from various types of dacs	United States of America	09632447	8/4/2000	US6734860	5/11/2004	Granted
RPX Corporation	Graphics engine with isochronous context switching	United States of America	10086981	3/1/2002	US6731288	5/4/2004	Granted
RPX Corporation	Method and architecture for self-clocking digital delay locked loop	United States of America	10074737	10/29/2001	US6731147	5/4/2004	Granted
RPX Corporation	Vehicle speed monitoring system and method	United States of America	10145805	5/16/2002	US6728605	4/27/2004	Granted
RPX Corporation	Method and apparatus for configuring configurable equipment with configuration information received from a remote location	United States of America	09568148	5/10/2000	US6725260	4/20/2004	Granted
RPX Corporation	Multi-tone receiver and a method for operating the same	United States of America	09538572	3/29/2000	US6721373	4/13/2004	Granted
RPX Corporation	Semiconductor device having diffusion layer formed using dopant of large mass number	United States of America	09865546	5/29/2001	US6720632	4/13/2004	Granted
RPX Corporation	Xml-based integrated services framework	United States of America	09879640	6/12/2001	US6718371	4/6/2004	Granted
RPX Corporation	Method and apparatus for cosocket telephony	United States of America	09120499	7/21/1998	US6714536	3/30/2004	Granted
RPX Corporation	System and method for providing computer upgrade information	United States of America	10271101	10/15/2002	US6711676	3/23/2004	Granted
RPX Corporation	Semiconductor device and method for fabricating the same	United States of America	10428920	5/5/2003	US6710382	3/23/2004	Granted
RPX Corporation	Method for fabricating semiconductor device	United States of America	10235830	9/6/2002	US6709961	3/23/2004	Granted
RPX Corporation	Unique bar code for indicating a link between a product and a remote location on a web network	United States of America	09491136	1/26/2000	US6708208	3/16/2004	Granted
RPX Corporation	Method and system for collecting reports for call center monitoring by supervisor	United States of America	09512429	2/25/2000	US6707904	3/16/2004	Granted
RPX Corporation	System and method for routing a call to a called party's landline or wireless communication unit	United States of America	09815965	3/23/2001	US6705916	3/16/2004	Granted
RPX Corporation	Automatic	United States of America	09568293	5/10/2000	US6704864	3/9/2004	Granted

Corporation	configuration of equipment software	States of America						
RPX Corporation	Self-aligned process for fabricating memory cells with two isolated floating gates	United States of America	10154395	5/23/2002	US6703298	3/9/2004	Granted	
RPX Corporation	Method and apparatus for accessing a remote location by sensing a machine-resolvable code	United States of America	09537530	3/29/2000	US6701369	3/2/2004	Granted	
RPX Corporation	Method for interconnecting two locations over a network in response to using a tool	United States of America	09379700	8/24/1999	US6701354	3/2/2004	Granted	
RPX Corporation	Method, apparatus and computer readable storage medium for data object matching using a classification index	United States of America	09583718	5/30/2000	US6701313	3/2/2004	Granted	
RPX Corporation	In-circuit test using scan chains	United States of America	10087654	3/1/2002	US6700581	3/2/2004	Granted	
RPX Corporation	Variable stride circle rendering apparatus and method	United States of America	09535358	3/24/2000	US6700576	3/2/2004	Granted	
RPX Corporation	Method and apparatus for controlling a user's pc through an audio-visual broadcast to archive information in the users pc	United States of America	09382376	8/24/1999	US6697949	2/24/2004	Granted	
RPX Corporation	Methods and apparatus for protecting information	United States of America	09305572	5/5/1999	US6697948	2/24/2004	Granted	
RPX Corporation	Boundary identification and characterization through density differencing	United States of America	09455572	12/6/1999	US6697497	2/24/2004	Granted	
RPX Corporation	Remote control having an optical indicia reader	United States of America	09611161	7/6/2000	US6694356	2/17/2004	Granted	
RPX Corporation	Pointer interactive apparatus	United States of America	09721024	11/22/2000	US6693648	2/17/2004	Granted	
RPX Corporation	Method and apparatus for displaying notification that a color corrected image is being viewed	United States of America	09422215	10/19/1999	US6693647	2/17/2004	Granted	
RPX Corporation	Method and system of testing and verifying computer code in a multi-threaded environment	United States of America	09859162	5/16/2001	US6691303	2/10/2004	Granted	
RPX Corporation	System and method of encoding video frames	United States of America	09261804	3/3/1999	US6690835	2/10/2004	Granted	
RPX Corporation	Multi-phase voltage-controlled oscillator at modulated, operating frequency	United States of America	09878074	6/7/2001	US6690243	2/10/2004	Granted	
RPX Corporation	Unique bar code	United States of America	09583134	5/30/2000	US6688522	2/10/2004	Granted	
RPX Corporation	System and method for	United States of America	09903837	7/11/2001	US6687245	2/3/2004	Granted	

Corporation	performing ip telephony	States of America						
RPX Corporation	Gtl driver	United States of America	10210700	7/31/2002	US6686765	2/3/2004	Granted	
RPX Corporation	System and method for automatically publishing electronic mail messages on the internet	United States of America	09572031	5/16/2000	US6684239	1/27/2004	Granted	
RPX Corporation	Portable information terminal with standby power supply	United States of America	09692541	10/20/2000	US6684083	1/27/2004	Granted	
RPX Corporation	Image data compression and decompression	United States of America	09458011	12/10/1999	US6683979	1/27/2004	Granted	
RPX Corporation	Digital phase/frequency detector, and clock generator and data recovery pll containing the same	United States of America	09470665	12/23/1999	US6683930	1/27/2004	Granted	
RPX Corporation	Method and cache-coherence system allowing purging of mid-level cache entries without purging lower-level cache entries	United States of America	09650100	8/25/2000	US6681293	1/20/2004	Granted	
RPX Corporation	Graphics processor for stereoscopically displaying a graphical image	United States of America	09533158	3/23/2000	US6674440	1/6/2004	Granted	
RPX Corporation	Method and apparatus for graphically programming a programmable circuit	United States of America	10017756	12/12/2001	US6671869	12/30/2003	Granted	
RPX Corporation	Mounting member for fixing a display panel to a display unit body	United States of America	09654171	9/1/2000	US6671012	12/30/2003	Granted	
RPX Corporation	Oscillator tuning method	United States of America	09981448	10/17/2001	US6670852	12/30/2003	Granted	
RPX Corporation	System and method for optimizing performance in a four-bank sdram	United States of America	10172461	6/12/2002	US6667930	12/23/2003	Granted	
RPX Corporation	System and method for controlling the frequency output from an oscillator using an in-phase voltage	United States of America	10042782	1/9/2002	US6667668	12/23/2003	Granted	
RPX Corporation	Data transmitter with sequential serialization	United States of America	09466652	12/20/1999	US6665360	12/16/2003	Granted	
RPX Corporation	Overhead serial communication scheme	United States of America	09435749	11/8/1999	US6665265	12/16/2003	Granted	
RPX Corporation	System and method for generating interleaved multi-phase outputs from a nested pair of phase locked loops	United States of America	10154030	5/23/2002	US6657466	12/2/2003	Granted	
RPX Corporation	Technique for surface mounting electrical components to a circuit board	United States of America	09844575	4/30/2001	US6655018	12/2/2003	Granted	
RPX Corporation	Charactering and calibrating an image capture device	United States of America	09440013	11/12/1999	US6654493	11/25/2003	Granted	

RPX Corporation	Display system having floating point rasterization and floating point framebuffering	United States of America	09098041	06/16/1998	US6650327B1	11/18/2003	Granted
RPX Corporation	Production method for semiconductor crystal	United States of America	09979258	11/21/2001	US6649496	11/18/2003	Granted
RPX Corporation	Data block update utilizing flash memory having unused memory size smaller than the data block size	United States of America	09540452	3/31/2000	US6647480	11/11/2003	Granted
RPX Corporation	Password generation method and system	United States of America	09211239	12/14/1998	US6643784	11/4/2003	Granted
RPX Corporation	Method for controlling a computer using an embedded unique code in the content of video tape media	United States of America	09378216	8/19/1999	US6643692	11/4/2003	Granted
RPX Corporation	Semiconductor device	United States of America	10061365	2/4/2002	US6642607	11/4/2003	Granted
RPX Corporation	Secure intranet access	United States of America	09493506	01/28/2000	US6640302B1	10/28/2003	Granted
RPX Corporation	Method and apparatus for utilizing an audibly coded signal to conduct commerce over the internet	United States of America	09491089	1/20/2000	US6636896	10/21/2003	Granted
RPX Corporation	Method for conducting a contest using a network	United States of America	09594292	6/15/2000	US6636892	10/21/2003	Granted
RPX Corporation	Real-time database upload with real-time column mapping	United States of America	09772674	1/30/2001	US6636861	10/21/2003	Granted
RPX Corporation	Optical line termination in atm-based pon	United States of America	09497133	2/3/2000	US6636527	10/21/2003	Granted
RPX Corporation	Network switch with zero latency flow control	United States of America	09258182	2/25/1999	US6636483	10/21/2003	Granted
RPX Corporation	Prompt management method supporting multiple languages in a system having a multi-bus structure and controlled by remotely generated commands	United States of America	09369038	08/04/1999	US6633848B1	10/14/2003	Granted
RPX Corporation	Etching method, semiconductor and fabricating method for the same	United States of America	09837556	4/19/2001	US6632746	10/14/2003	Granted
RPX Corporation	Method and apparatus for limiting soft error recovery in a disk drive data storage device	United States of America	10215409	8/8/2002	US6631493	10/7/2003	Granted
RPX Corporation	Method and system for conducting a contest using a network	United States of America	09568754	5/11/2000	US6631404	10/7/2003	Granted
RPX Corporation	Leach-resistant solder alloys for silver-based thick-film conductors	United States of America	10252502	9/23/2002	US6630251	10/7/2003	Granted
RPX Corporation	Interactive doll	United States of America	09378219	8/19/1999	US6629133	9/30/2003	Granted

		America					
RPX Corporation	Circuit, method and/or architecture for improving the performance of a serial communication link	United States of America	09371051	8/9/1999	US6628656	9/30/2003	Granted
RPX Corporation	Selectable back end unit	United States of America	09633092	8/4/2000	US6628288	9/30/2003	Granted
RPX Corporation	Circuit, method and/or architecture for improving the performance of a serial communication link	United States of America	09370262	8/9/1999	US6625177	9/23/2003	Granted
RPX Corporation	Selection of data for network transmission	United States of America	09449146	11/24/1999	US6625122	9/23/2003	Granted
RPX Corporation	Igfet and tuning circuit	United States of America	09917703	7/31/2001	US6624484	9/23/2003	Granted
RPX Corporation	Semiconductor device and method for fabricating the same	United States of America	09672860	9/29/2000	US6624076	9/23/2003	Granted
RPX Corporation	Method and apparatus for allowing a remote site to interact with an intermediate database to facilitate access to the remote site	United States of America	09497252	2/3/2000	US6622165	9/16/2003	Granted
RPX Corporation	Dual differential input comparators with integrated phase detector	United States of America	10106701	3/26/2002	US6617883	9/9/2003	Granted
RPX Corporation	Method for controlling a computer using an embedded unique code in the content of dat media	United States of America	09378215	8/19/1999	US6615268	9/2/2003	Granted
RPX Corporation	Method and apparatus for differential macroblock coding for intra-frame data in video conferencing systems	United States of America	08941785	09/30/1997	US6614845B1	09/02/2003	Granted
RPX Corporation	Electronic package and method therefor	United States of America	09692886	10/23/2000	US6614108	9/2/2003	Granted
RPX Corporation	Method and apparatus for reducing the number of programmed bits in a memory array	United States of America	09898725	7/3/2001	US6611456	8/26/2003	Granted
RPX Corporation	System and method for providing a wide aspect ratio flat panel display monitor independent white-balance adjustment and gamma correction capabilities	United States of America	09120960	7/22/1998	US6611249	8/26/2003	Granted
RPX Corporation	Method of soldering a leaded circuit component	United States of America	09715710	11/20/2000	US6609651	8/26/2003	Granted
RPX Corporation	Component architecture in a computer system	United States of America	09427359	10/26/1999	US6609158	8/19/2003	Granted
RPX Corporation	Midplane for data processing apparatus	United States of America	09870842	6/1/2001	US6608762	8/19/2003	Granted

RPX Corporation	Method and circuit for processing output data in pipelined circuits	United States of America	09823325	3/29/2001	US6606272	8/12/2003	Granted
RPX Corporation	Scalable internet engine	United States of America	10244450	9/16/2002	US6606253	8/12/2003	Granted
RPX Corporation	High-speed modem with uplink remote-echo canceller	United States of America	09231471	1/14/1999	US6597732	7/22/2003	Granted
RPX Corporation	Auto-disable receive control for ddr receive strobes	United States of America	10114408	4/2/2002	US6597628	7/22/2003	Granted
RPX Corporation	Parallel phased switch control	United States of America	10164172	6/5/2002	US6597157	7/22/2003	Granted
RPX Corporation	Method and apparatus for utilizing an audibly coded signal to conduct commerce over the internet	United States of America	09489879	1/20/2000	US6594705	7/15/2003	Granted
RPX Corporation	Integrated circuit assembly with bar bond attachment	United States of America	10124782	4/17/2002	US6593527	7/15/2003	Granted
RPX Corporation	Multi-bit programmable memory cell having multiple anti-fuse elements	United States of America	10043677	1/9/2002	US6590797	7/8/2003	Granted
RPX Corporation	Semiconductor device and method for fabricating the same	United States of America	09911618	7/25/2001	US6589827	7/8/2003	Granted
RPX Corporation	Skills based routing method and system for call center	United States of America	09512428	2/25/2000	US6587556	7/1/2003	Granted
RPX Corporation	Modular digital telephone system and method including an universal telephony shelf	United States of America	09456209	12/7/1999	US6577730	6/10/2003	Granted
RPX Corporation	Alarm display and method	United States of America	09456208	12/7/1999	US6577729	6/10/2003	Granted
RPX Corporation	Wide instruction word graphics processor	United States of America	09353420	07/15/1999	US6577316B2	06/10/2003	Granted
RPX Corporation	Load balancing for cellular and wireless systems	United States of America	09315902	5/20/1999	US6574474	6/3/2003	Granted
RPX Corporation	Signal line matching technique for ics/pebs	United States of America	09658598	9/11/2000	US6573757	6/3/2003	Granted
RPX Corporation	Method and computer program product for global minimization of sign-extension and zero-extension operations	United States of America	09499745	2/8/2000	US6571387	5/27/2003	Granted
RPX Corporation	Method and apparatus for managing a heterogeneous data storage system	United States of America	09552821	4/20/2000	US6571310	5/27/2003	Granted
RPX Corporation	Digital clocking synchronizing mechanism	United States of America	09343689	6/30/1999	US6570982	5/27/2003	Granted
RPX Corporation	Device and method for expanding legacy switches	United States of America	09455802	12/7/1999	US6570981	5/27/2003	Granted
RPX Corporation	Automotive electronics control	United States of America	10175094	6/18/2002	US6570089	5/27/2003	Granted

	module enclosure	America					
RPX Corporation	Method of field programmable gate array configuration	United States of America	09343695	6/30/1999	US6567518	5/20/2003	Granted
RPX Corporation	Timing and switching array and method	United States of America	09456244	12/7/1999	US6567517	5/20/2003	Granted
RPX Corporation	High density wirebond connector assembly	United States of America	09850626	5/7/2001	US6565365	5/20/2003	Granted
RPX Corporation	Arbitration mechanism	United States of America	09343693	6/30/1999	US6563922	5/13/2003	Granted
RPX Corporation	Capacitance element and method of manufacturing the same	United States of America	09689840	10/13/2000	US6562677	5/13/2003	Granted
RPX Corporation	Method, apparatus, and article of manufacture for a network monitoring system	United States of America	09416079	9/23/1999	US6560611	5/6/2003	Granted
RPX Corporation	Capacitorless dram gain cell	United States of America	10063119	3/22/2002	US6560142	5/6/2003	Granted
RPX Corporation	Method for modeling and updating a colorimetric reference profile for a flat panel display	United States of America	09502555	2/10/2000	US6559826	5/6/2003	Granted
RPX Corporation	Suspend and resume processing method for suspending and resuming a plurality of states of programmed operations	United States of America	09511770	2/24/2000	US6553400	4/22/2003	Granted
RPX Corporation	Streaming multimedia network with automatically switchable content sources	United States of America	09335717	6/18/1999	US6546427	4/8/2003	Granted
RPX Corporation	Method and system for efficient edge blending in high fidelity multichannel computer graphics displays	United States of America	09231405	1/14/1999	US6545685	4/8/2003	Granted
RPX Corporation	Semiconductor device having multilevel interconnection structure and method for fabricating the same	United States of America	09835169	4/16/2001	US6545361	4/8/2003	Granted
RPX Corporation	System and method for synchronizing database information	United States of America	09296687	4/21/1999	US6539381	3/25/2003	Granted
RPX Corporation	Parallel framer and transport protocol with distributed framing and continuous data	United States of America	10096056	3/11/2002	US6539051	3/25/2003	Granted
RPX Corporation	Low latency, low power deserializer	United States of America	09302193	4/29/1999	US6535527	3/18/2003	Granted
RPX Corporation	High resolution 3-d imaging range finder	United States of America	09772361	1/30/2001	US6535275	3/18/2003	Granted
RPX Corporation	Semiconductor device and method for fabricating the same	United States of America	09986289	11/8/2001	US6534868	3/18/2003	Granted
RPX Corporation	Semiconductor device	United States of America	09855773	5/16/2001	US6531729	3/11/2003	Granted

Corporation	and method for fabricating the same	States of America						
RPX Corporation	Surface mount devices with solder	United States of America	09286325	4/5/1999	US6531664	3/11/2003	Granted	
RPX Corporation	Method for etching organic film, method for fabricating semiconductor device and pattern formation method	United States of America	09798912	3/6/2001	US6531402	3/11/2003	Granted	
RPX Corporation	Floating-point adder performing floating-point and integer operations	United States of America	09274595	3/23/1999	US6529928	3/4/2003	Granted	
RPX Corporation	Multi-bit parallel testing for memory devices	United States of America	09863151	5/22/2001	US6529428	3/4/2003	Granted	
RPX Corporation	Method and apparatus for controlling a computer from a remote location	United States of America	09378220	8/19/1999	US6526449	2/25/2003	Granted	
RPX Corporation	Pcm codec and modem for 56k bi-directional transmission	United States of America	09231183	1/14/1999	US6522688	2/18/2003	Granted	
RPX Corporation	Graphics processing system with multiple strip breakers	United States of America	09353912	7/15/1999	US6518971	2/11/2003	Granted	
RPX Corporation	Clock circuit with self correcting duty cycle	United States of America	09920029	8/1/2001	US6518809	2/11/2003	Granted	
RPX Corporation	Semiconductor misfet	United States of America	09759300	1/16/2001	US6518636	2/11/2003	Granted	
RPX Corporation	Semiconductor device and method for fabricating the same	United States of America	09708082	11/8/2000	US6518169	2/11/2003	Granted	
RPX Corporation	Network switch with head of line input buffer queue clearing	United States of America	09258181	2/25/1999	US6510138	1/21/2003	Granted	
RPX Corporation	Method of forming electrode structure and method of fabricating semiconductor device	United States of America	09680053	10/5/2000	US6509254	1/21/2003	Granted	
RPX Corporation	E-mail usage pattern detection	United States of America	09356974	7/19/1999	US6507866	1/14/2003	Granted	
RPX Corporation	Method and system which uses sound wave based communication to generate a secure wireless link between a handset and base station	United States of America	09216086	12/18/1998	US6507734	1/14/2003	Granted	
RPX Corporation	Method and architecture for synchronizing a transport and path overhead generator and/or extractor to an path overhead transport and path processor	United States of America	09436314	11/8/1999	US6502197	12/31/2002	Granted	
RPX Corporation	Modular network switch with peer-to-peer address mapping communication	United States of America	09258183	2/25/1999	US6501761	12/31/2002	Granted	
RPX Corporation	High speed memory	United States of America	09607802	6/30/2000	US6501670	12/31/2002	Granted	



Corporation	architecture and busing	States of America					
RPX Corporation	Method and structure for efficiently placing and interconnecting circuit blocks in an integrated circuit	United States of America	09608674	6/29/2000	US6496032	12/17/2002	Granted
RPX Corporation	Insertion and extraction aid for printed circuit card	United States of America	09871942	6/4/2001	US6494729	12/17/2002	Granted
RPX Corporation	Modeling and fabrication of objects represented as developable surfaces	United States of America	09449666	11/30/1999	US6493603	12/10/2002	Granted
RPX Corporation	Electronic watermarking system	United States of America	09115406	7/14/1998	US6490681	12/3/2002	Granted
RPX Corporation	Logic gate with symmetrical propagation delay from any input to any output and a controlled output pulse width	United States of America	09802700	3/8/2001	US6489811	12/3/2002	Granted
RPX Corporation	Smart card memory management system and method	United States of America	09386286	8/31/1999	US6480935	11/12/2002	Granted
RPX Corporation	Data sequencer with mux select input for converting input data stream and to specific output data stream using two exclusive-or logic gates and counter	United States of America	09353894	7/15/1999	US6480913	11/12/2002	Granted
RPX Corporation	Multi-processor graphics accelerator	United States of America	09353495	07/15/1999	US6476816B1	11/05/2002	Granted
RPX Corporation	Method and apparatus for preparing a perspective view of an approximately spherical surface portion	United States of America	09452322	11/30/1999	US6476813	11/5/2002	Granted
RPX Corporation	Cmos active pixel sensor using native transistors	United States of America	09813486	3/20/2001	US6476372	11/5/2002	Granted
RPX Corporation	Method and system for generating a secure wireless link between a handset and base station	United States of America	09216380	12/18/1998	US6473613B2	10/29/2002	Granted
RPX Corporation	Method and apparatus for accurate packet time stamping	United States of America	09654973	9/5/2000	US6470031	10/22/2002	Granted
RPX Corporation	Structure and method for high speed sensing of memory arrays	United States of America	09935013	8/21/2001	US6469929	10/22/2002	Granted
RPX Corporation	System and method for remote printing in a distributed network environment	United States of America	08778639	01/03/1997	US6466328B1	10/15/2002	Granted
RPX Corporation	High voltage charge pump for providing output voltage close to maximum high voltage of a cmos device	United States of America	09888353	6/21/2001	US6466079	10/15/2002	Granted
RPX Corporation	Sense amplifier offset cancellation in non-volatile memory circuits by dedicated	United States of America	09888348	6/21/2001	US6459620	10/1/2002	Granted

	programmed reference non-volatile memory cells							
RPX Corporation	System for displaying a television signal on a computer monitor	United States of America	09353419	7/15/1999	US6459453	10/1/2002	Granted	
RPX Corporation	Method for forming interlayer dielectric film	United States of America	09625187	7/21/2000	US6458720	10/1/2002	Granted	
RPX Corporation	Power management method detecting interruption of ac power in suspended state of computer system	United States of America	09340435	6/28/1999	US6457136	9/24/2002	Granted	
RPX Corporation	System and method for maintaining a knowledge base and evidence set	United States of America	09832221	4/11/2001	US6457002	9/24/2002	Granted	
RPX Corporation	Voltage regulator for memory device	United States of America	09941451	8/28/2001	US6456557	9/24/2002	Granted	
RPX Corporation	Apparatus and method for performing image transforms in a digital display system	United States of America	09294259	4/19/1999	US6456340	9/24/2002	Granted	
RPX Corporation	Method of fabricating semiconductor device	United States of America	09479243	1/7/2000	US6455436	9/24/2002	Granted	
RPX Corporation	Scalable internet engine	United States of America	09709820	11/10/2000	US6452809	9/17/2002	Granted	
RPX Corporation	Method of forming electrode structure and method of fabricating semiconductor device	United States of America	09679617	10/5/2000	US6451690	9/17/2002	Granted	
RPX Corporation	Liquid crystal flat panel display with enhanced backlight brightness and specially selected light sources	United States of America	09590753	06/08/2000	US6448955B1	09/10/2002	Granted	
RPX Corporation	Memory device with time shared data lines	United States of America	09654147	9/1/2000	US6445641	9/3/2002	Granted	
RPX Corporation	Method for fabricating a semiconductor device	United States of America	09570545	5/12/2000	US6436786	8/20/2002	Granted	
RPX Corporation	Method of fabricating semiconductor device	United States of America	09551541	4/18/2000	US6436747	8/20/2002	Granted	
RPX Corporation	Processing of network data by parallel processing channels	United States of America	09102972	6/22/1998	US6434145	8/13/2002	Granted	
RPX Corporation	Dynamic write-order organizer	United States of America	09266052	3/10/1999	US6433787	8/13/2002	Granted	
RPX Corporation	Semiconductor device and method of fabricating the same	United States of America	09452460	12/2/1999	US6432803	8/13/2002	Granted	
RPX Corporation	Method for fabricating semiconductor device	United States of America	09662359	9/15/2000	US6432802	8/13/2002	Granted	
RPX Corporation	Enclosure for electronic components	United States of America	09666749	9/21/2000	US6426461	7/30/2002	Granted	
RPX Corporation	Method of implementing a forward compatibility	United States of America	09533442	3/23/2000	US6424976	7/23/2002	Granted	

	network directory syntax							
RPX Corporation	System and method for implementing v.90 central site modem functionality at a customer premises	United States of America	09368328	8/3/1999	US6424675	7/23/2002	Granted	
RPX Corporation	Keypad scamming with few pins	United States of America	09290139	4/13/1999	US6424274	7/23/2002	Granted	
RPX Corporation	Method and system for data transformation in a computer network	United States of America	09404397	9/23/1999	US6421743	7/16/2002	Granted	
RPX Corporation	Quantization using frequency and mean compensated frequency input data for robust speech recognition	United States of America	09649737	8/28/2000	US6418412	7/9/2002	Granted	
RPX Corporation	Pwb esd discharger	United States of America	09500931	2/15/2000	US6407895	6/18/2002	Granted	
RPX Corporation	Method and apparatus for semantic token generation based on marked phrases in a content stream	United States of America	09183340	10/30/1998	US6405199	6/11/2002	Granted	
RPX Corporation	Methods of placing, purchasing and monitoring internet advertising	United States of America	09503275	2/14/2000	US6401075	6/4/2002	Granted	
RPX Corporation	Systems and methods for multiple mode voice and data communications using intelligently bridged TDM and packet buses and methods for performing telephony and data functions using the same	United States of America	09433914	10/03/1999	US6400711B1	06/04/2002	Granted	
RPX Corporation	Systems and methods for multiple mode voice and data communications using intelligently bridged TDM and packet buses and methods for performing telephony and data functions using the same	United States of America	09418424	10/15/1999	US6396849B1	05/28/2002	Granted	
RPX Corporation	Method and apparatus for characterizing an optimal viewing angle of flat display	United States of America	09440017	11/12/1999	US6392657	5/21/2002	Granted	
RPX Corporation	System and method for installing/de-installing an application on a smart card	United States of America	09386288	8/31/1999	US6390374	5/21/2002	Granted	
RPX Corporation	Systems and methods for multiple mode voice and data communications using intelligently bridged TDM and packet buses	United States of America	09951283	09/13/2001	US6389009B1	05/14/2002	Granted	
RPX Corporation	Cpu core voltage switching circuit	United States of America	09736563	12/13/2000	US6388432	5/14/2002	Granted	
RPX	Systems and methods	United States of America	09419385	10/15/1999	US6385194B2	05/07/2002	Granted	

Corporation	for multiple mode voice and data communications using intelligently bridged TDM and packet buses and methods for performing telephony and data functions using the same	States of America					
RPX Corporation	Method and system for data transmission from an optical reader	United States of America	09593094	6/13/2000	US6384744	5/7/2002	Granted
RPX Corporation	Routing string indicative of a location of a database on a web associated with a product in commerce	United States of America	09494925	2/1/2000	US6377986	4/23/2002	Granted
RPX Corporation	Circuitry, architecture and method (s) for phase matching and/or reducing load capacitance, current and/or power consumption in an oscillator	United States of America	09966603	9/28/2001	US6377128	4/23/2002	Granted
RPX Corporation	Process for preventing the formation of a copper precipitate in a copper-containing metallization on a die	United States of America	09482777	1/13/2000	US6376375	4/23/2002	Granted
RPX Corporation	Method of manufacturing a semiconductor device	United States of America	09523985	3/13/2000	US6376373	4/23/2002	Granted
RPX Corporation	Distributed client-based data caching system	United States of America	09817953	3/26/2001	US6374289	4/16/2002	Granted
RPX Corporation	Data frequency detector	United States of America	09471915	12/23/1999	US6366135	4/2/2002	Granted
RPX Corporation	Semiconductor device and method for fabricating the same	United States of America	09840883	4/25/2001	US6365959	4/2/2002	Granted
RPX Corporation	Methodology for displaying search results using character recognition	United States of America	09228221	1/11/1999	US6363179	3/26/2002	Granted
RPX Corporation	Triple layer pre-metal dielectric structure for cmos memory devices	United States of America	09542501	4/3/2000	US6362508	3/26/2002	Granted
RPX Corporation	Flat panel display screen with programmable gamma functionality	United States of America	09590887	6/9/2000	US6359389	3/19/2002	Granted
RPX Corporation	Systems and methods for multiple mode voice and data communications using intelligently bridged TDM and packet buses and methods for performing telephony and data functions using the same	United States of America	09433809	11/03/1999	US6356554B1	03/12/2002	Granted
RPX Corporation	Crosspoint switch array with broadcast and implied disconnect operating modes	United States of America	09735430	12/12/2000	US6356111	3/12/2002	Granted
RPX Corporation	Method and apparatus for partial-scan built-in	United States of	09237486	1/26/1999	US6349398	2/19/2002	Granted

	self test logic	America						
RPX Corporation	Matrix quantization with vector quantization error compensation and neural network postprocessing for robust speech recognition	United States of America	09166640	10/5/1998	US6347297	2/12/2002	Granted	
RPX Corporation	Digital cordless telephony with pcm coding	United States of America	09191008	11/12/1998	US6343217	1/29/2002	Granted	
RPX Corporation	Systems and methods for multiple mode voice and data communications using intelligently bridged tdm and packet buses and methods for performing telephony and data functions using the same	United States of America	09163596	9/29/1998	US6343074	1/29/2002	Granted	
RPX Corporation	Self-adjustable impedance line driver with hybrid	United States of America	09597599	6/20/2000	US6343024	1/29/2002	Granted	
RPX Corporation	System and method for using temporal gamma and reverse super-resolution to process images for use in digital display systems	United States of America	09277100	3/26/1999	US6340994	1/22/2002	Granted	
RPX Corporation	Smart card patch manager	United States of America	09386289	8/31/1999	US6338435	1/15/2002	Granted	
RPX Corporation	Shelf driver unit and method	United States of America	09456242	12/7/1999	US6333981	12/25/2001	Granted	
RPX Corporation	Method for making semiconductor device containing low carbon film for interconnect structures	United States of America	09137150	8/20/1998	US6333255	12/25/2001	Granted	
RPX Corporation	Proxy cache cluster	United States of America	09195982	11/19/1998	US6330605B1	12/11/2001	Granted	
RPX Corporation	Modular digital telephone system and method including an universal telephony shelf	United States of America	09145780	8/28/1998	US6330328	12/11/2001	Granted	
RPX Corporation	Method and apparatus for overcoming periodic disturbances in digital subscriber loops	United States of America	09100695	6/19/1998	US6330275	12/11/2001	Granted	
RPX Corporation	Circuitry, architecture and method(s) for phase matching and/or reducing load capacitance, current and/or power consumption in an oscillator	United States of America	09383328	8/26/1999	US6326853	12/4/2001	Granted	
RPX Corporation	Interconnect capacitive effects estimation	United States of America	09276992	3/26/1999	US6314546	11/6/2001	Granted	
RPX Corporation	Symmetric multiprocessing system with unified	United States of America	08258752	6/10/1994	US6311286	10/30/2001	Granted	

	environment and distributed system functions							
RPX Corporation	Three tier client/server model for legacy switches	United States of America	09163631	9/30/1998	US6310945	10/30/2001	Granted	
RPX Corporation	Reference-free clock generation and data recovery pll	United States of America	09471576	12/23/1999	US6310521	10/30/2001	Granted	
RPX Corporation	High density wirebond connector assembly	United States of America	09467502	12/20/1999	US6309224	10/30/2001	Granted	
RPX Corporation	Reference-free clock generator and data recovery pll	United States of America	09471914	12/23/1999	US6307413	10/23/2001	Granted	
RPX Corporation	Method, system, and computer program product for using static single assignment form as a program representation and a medium for performing global scalar optimization	United States of America	09097672	06/16/1998	US6301704B1	10/09/2001	Granted	
RPX Corporation	Method, system, and computer program product for visualizing a data structure	United States of America	09175318	10/20/1998	US6301579	10/9/2001	Granted	
RPX Corporation	Semiconductor device and method of fabricating the same	United States of America	09560299	4/27/2000	US6300242	10/9/2001	Granted	
RPX Corporation	Systems and methods for multiple mode voice and data communications using intelligently bridged TDM and packet buses and methods for performing telephony and data functions using the same	United States of America	09433651	11/03/1999	US6298045B1	10/02/2001	Granted	
RPX Corporation	Method and structure for accessing a reduced address space of a defective memory	United States of America	09295934	4/21/1999	US6295595	9/25/2001	Granted	
RPX Corporation	Volatile key apparatus for safeguarding confidential data stored in a computer system memory	United States of America	09159069	9/23/1998	US6292899	9/18/2001	Granted	
RPX Corporation	Systems and methods for multiple mode voice and data communications using intelligently bridged TDM and packet buses and methods for performing telephony and data functions using the same	United States of America	09433637	11/03/1999	US6289025B1	09/11/2001	Granted	
RPX Corporation	System and method for power conservation in a wireless communication handset	United States of America	09245827	2/5/1999	US6278887	8/21/2001	Granted	
RPX Corporation	Keyboard control method and keyboard	United States of America	09144361	8/31/1998	US6278384	8/21/2001	Granted	

	control apparatus	America						
RPX Corporation	Data input/output system for multiple data rate memory devices	United States of America	09588994	6/6/2000	US6275441	8/14/2001	Granted	
RPX Corporation	Systems and methods for multiple mode voice and data communications using intelligently bridged TDM and packet buses and methods for performing telephony and data functions using the same	United States of America	09418639	10/15/1999	US6266341B1	07/24/2001	Granted	
RPX Corporation	Low latency, low power deserializer	United States of America	09301900	4/29/1999	US6265996	7/24/2001	Granted	
RPX Corporation	Small thickness laptop computer having peripheral keys of reduced height	United States of America	09302452	4/30/1999	US6262882	7/17/2001	Granted	
RPX Corporation	Conductor pattern for surface mount devices and method therefor	United States of America	09286324	4/5/1999	US6259608	7/10/2001	Granted	
RPX Corporation	System and method for facilitating multiple applications on a smart card	United States of America	09450028	11/29/1999	US6256690	7/3/2001	Granted	
RPX Corporation	System and method for maintaining a knowledge base and evidence set	United States of America	09102751	6/23/1998	US6256627	7/3/2001	Granted	
RPX Corporation	Heat radiating member for heat generating device	United States of America	09358771	7/22/1999	US6252776	6/26/2001	Granted	
RPX Corporation	Method and apparatus for detecting a sinusoidal signal	United States of America	09286991	4/7/1999	US6252428	6/26/2001	Granted	
RPX Corporation	Method and apparatus for detecting a sinusoidal signal using a counter and queue	United States of America	09286998	4/7/1999	US6246267	6/12/2001	Granted	
RPX Corporation	Optimization of a graphics processor system when rendering images	United States of America	09131562	8/10/1998	US6243107	6/5/2001	Granted	
RPX Corporation	Cmos active pixel sensor using native transistors	United States of America	09137664	8/20/1998	US6242728	6/5/2001	Granted	
RPX Corporation	One-piece multiple-compartment shipping and display box	United States of America	09559209	4/24/2000	US6237842	5/29/2001	Granted	
RPX Corporation	Method and apparatus for detecting message waiting signal	United States of America	09135079	8/17/1998	US6230007	5/8/2001	Granted	
RPX Corporation	System and method of collecting and maintaining historical top communicator information on a communication device	United States of America	09288949	4/9/1999	US6219705	4/17/2001	Granted	
RPX Corporation	Methodology for cache coherency of web server data	United States of America	09369947	8/6/1999	US6219676	4/17/2001	Granted	
RPX Corporation	Quantization using frequency and mean compensated	United States of America	09166648	10/5/1998	US6219642	4/17/2001	Granted	

	frequency input data for robust speech recognition						
RPX Corporation	Electronic equipment with pointing device	United States of America	09237911	1/27/1999	US6219036	4/17/2001	Granted
RPX Corporation	One-shot pulse synchronizer	United States of America	09327835	6/8/1999	US6218874	4/17/2001	Granted
RPX Corporation	Method and system for rapid retrieval in a full text indexing system	United States of America	09103702	6/24/1998	US6216123	4/10/2001	Granted
RPX Corporation	Memory device having line address counter for making next line active while current line is processed	United States of America	09468545	12/21/1999	US6215719	4/10/2001	Granted
RPX Corporation	Voice word processor that corrects word groups	United States of America	09198266	11/24/1998	US6212497	4/3/2001	Granted
RPX Corporation	Voice command system and method	United States of America	09305099	5/3/1999	US6212408	4/3/2001	Granted
RPX Corporation	Network routing switch with non-blocking arbitration system	United States of America	09129982	8/5/1998	US6212194	4/3/2001	Granted
RPX Corporation	Keyboard with key lock function	United States of America	09482078	1/13/2000	US6211475	4/3/2001	Granted
RPX Corporation	Systems and methods for multiple mode voice and data communications using intelligently bridged tdm and packet buses and methods for performing telephony and data functions using the same	United States of America	09161550	9/25/1998	US6208658	3/27/2001	Granted
RPX Corporation	Heat sink	United States of America	09393419	9/10/1999	US6208517	3/27/2001	Granted
RPX Corporation	Method for providing an internet protocol address with a domain name server	United States of America	09225194	01/05/1999	US6205489B1	03/20/2001	Granted
RPX Corporation	Authority delegation with secure operating system queues	United States of America	09119896	7/21/1998	US6189103	2/13/2001	Granted
RPX Corporation	System for processing vertices from a graphics request stream	United States of America	09353432	7/15/1999	US6188410	2/13/2001	Granted
RPX Corporation	Buck converter with parallel switches	United States of America	09259202	3/1/1999	US6184666	2/6/2001	Granted
RPX Corporation	Multi-stage charge pump having high-voltage pump control feedback and method of operating same	United States of America	09244318	2/4/1999	US6184594	2/6/2001	Granted
RPX Corporation	Dual-mode ac/dc electrical receptacle	United States of America	09320523	5/26/1999	US6160728	12/12/2000	Granted
RPX	Apparatus and method	United	09354462	7/15/1999	US6157393	12/5/2000	Granted



Corporation	of directing graphical data to a display device	States of America					
RPX Corporation	Systems and methods for multiple mode voice and data communications using intelligently bridged TDM and packet buses and methods for performing telephony and data functions using the same	United States of America	09167408	10/06/1998	US6154465	11/28/2000	Granted
RPX Corporation	Method, system, and computer program product for extending sparse partial redundancy elimination to support speculative code motion within an optimizing compiler	United States of America	09097715	06/16/1998	US6151706	11/21/2000	Granted
RPX Corporation	Programmable motion-sensitive sound effects device	United States of America	09391791	9/8/1999	US6150947	11/21/2000	Granted
RPX Corporation	System and method for automatic device synchronization	United States of America	09245823	2/5/1999	US6138245	10/24/2000	Granted
RPX Corporation	Method, system, and computer program product for performing register promotion via load and store placement optimization within an optimizing compiler	United States of America	09097713	06/16/1998	US6128775	10/03/2000	Granted
RPX Corporation	Bidirectional database replication scheme for controlling ping-ponging	United States of America	09328257	6/8/1999	US6122630	9/19/2000	Granted
RPX Corporation	Method and apparatus for semantic characterization of general content streams and repositories	United States of America	09109804	7/2/1998	US6108619	8/22/2000	Granted
RPX Corporation	Nfet/pfet ram precharge circuitry to minimize read sense amp operational range	United States of America	09395922	9/14/1999	US6108256	8/22/2000	Granted
RPX Corporation	Implementation of eeprom using intermediate gate voltage to avoid disturb conditions	United States of America	09243977	2/4/1999	US6108240	8/22/2000	Granted
RPX Corporation	Method for controlling a computer with an audio signal	United States of America	09151530	9/11/1998	US6098106	8/1/2000	Granted
RPX Corporation	Through hole circuit board interconnect	United States of America	09177586	10/23/1998	US6081996	7/4/2000	Granted
RPX Corporation	Secure intranet access	United States of America	09268795	03/16/1999	US6081900	06/27/2000	Granted
RPX Corporation	Power switching circuit of network-connected device	United States of America	09328394	6/9/1999	US6061220	5/9/2000	Granted
RPX Corporation	Flat panel display and stand with vertical	United States of America	09120962	7/22/1998	US6061104	5/9/2000	Granted

	adjustment and tilt adjustment	America						
RPX Corporation	Method for fabricating semiconductor device and method for controlling environment inside reaction chamber of dry etching apparatus	United States of America	09179936	10/28/1998	US6057247	5/2/2000	Granted	
RPX Corporation	Flip-chip resin sealing structure and resin sealing method	United States of America	09124910	7/30/1998	US6049038	4/11/2000	Granted	
RPX Corporation	Hierarchical decoding of a memory device	United States of America	09148817	9/4/1998	US6031784	2/29/2000	Granted	
RPX Corporation	Video telephone system having function of repelling mischievous call	United States of America	09221118	12/28/1998	US6031563	2/29/2000	Granted	
RPX Corporation	Multi-tip module	United States of America	09104824	6/25/1998	US6018462	1/25/2000	Granted	
RPX Corporation	Apparatus and method for manufacturing semiconductor device	United States of America	09119588	7/21/1998	US5989929	11/23/1999	Granted	
RPX Corporation	Controlling the set up of a memory address	United States of America	09154664	9/16/1998	US5970020	10/19/1999	Granted	
RPX Corporation	At-speed computer model testing methods	United States of America	09238387	1/27/1999	US6327556	12/4/2001	Granted	
RPX Corporation	Programmable packet switching device	United States of America	09090285	6/4/1998	US6628653	9/30/2003	Granted	
RPX Corporation	Systems and methods for multiple mode voice and data communications using intelligently bridged tdm and packet buses	United States of America	10143309	5/10/2002	US6744758	6/1/2004	Granted	
RPX Corporation	Functional-level instruction-set computer architecture for processing application-layer content-service requests such as file-access requests	United States of America	10248029	12/12/2002	US7254696	8/7/2007	Granted	
RPX Corporation	System and method for enabling automated run-time input to network bootstrapping processes	United States of America	12756653	4/8/2010	USRE44299	6/11/2013	Granted	
RPX Corporation	Method and apparatus for a wireless tether system	United States of America	13100454	5/4/2011	USRE44433	8/13/2013	Granted	
RPX Corporation	Method of producing multilayer wiring device with offset axes of upper and lower plugs	United States of America	09113370	7/1/1998	US6197685	3/6/2001	Granted	
RPX Corporation	Antenna system with individually addressable elements in dense array	United States of America	13299194	11/17/2011	US8787975	7/22/2014	Granted	
RPX Corporation	Method and system for processing antenna feeds using separate processing pipelines	United States of America	13299198	11/17/2011	US8965432	2/24/2015	Granted	

RPX Corporation	System and method for providing network access to individually recorded content	United States of America	13299191	11/17/2011	US9060156	6/16/2015	Granted
RPX Corporation	System and method for providing network access to antenna feeds	United States of America	13299186	11/17/2011	US9131276	9/8/2015	Granted

Owner	Title	Country	Application No.	Filing Date	Patent No.	Issue Date	Patent Status
RPX Corporation	Fast lapped image transforms using lifting steps	United States of America	09212210	12/16/1998	6421464	7/16/2002	Granted
RPX Corporation	Recording game information into a server	United States of America	09455956	12/7/1999	7037198	5/2/2006	Granted
RPX Corporation	Method for fabricating semiconductor device	United States of America	09856823	5/25/2001	7037371	5/2/2006	Granted
RPX Corporation	Multi-path bar bond connector for an integrated circuit assembly	United States of America	10919864	8/17/2004	7038308	5/2/2006	Granted
RPX Corporation	System and method for the collection and display of network performance data in a communication network	United States of America	09293009	4/16/1999	7039015	5/2/2006	Granted
RPX Corporation	Stream continuity enforcement	United States of America	09528456	3/17/2000	7039189	5/2/2006	Granted
RPX Corporation	Computer system for performing reusable software application development from a set of declarative executable specifications	United States of America	10194646	7/12/2002	7039898	5/2/2006	Granted
RPX Corporation	Method for controlling a computer using an embedded unique code in the content of CD media	United States of America	09378217	8/19/1999	7043536	5/9/2006	Granted
RPX Corporation	Method and apparatus for operating a computer in a secure mode	United States of America	10006049	12/6/2001	7043643	5/9/2006	Granted
RPX Corporation	Portable information terminal equipped with camera	United States of America	09733033	11/11/2000	7046287	5/16/2006	Granted
RPX Corporation	Reduced complexity multicarrier precoder	United States of America	10603803	6/26/2003	7046740	5/16/2006	Granted
RPX Corporation	Manufacturing method for an electronic device, and the electronic device	United States of America	10621502	7/17/2003	7052624	5/30/2006	Granted
RPX Corporation	Electric device and method for fabricating the same	United States of America	10459616	6/12/2003	7057288	6/6/2009	Granted
RPX Corporation	Pointing device and mobile telephone	United States of America	09960939	9/25/2001	7058432	6/6/2006	Granted
RPX Corporation	System and device for monitoring of occupancy area	United States of America	10729474	12/5/2003	7058546	6/6/2006	Granted

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RPX Corporation	System, method and computer program product for intuitive interactive navigation control in virtual environments	United States of America	10046179	1/16/2002	7058896	6/6/2006	Granted
RPX Corporation	Out of band communications link for 4-lane optical modules using dark fibers and low-bandwidth LEDs	United States of America	10183812	6/25/2002	7062177	6/13/2006	Granted
RPX Corporation	Management and scheduling of a distributed rendering method and system	United States of America	09609045	6/30/2000	7062527	6/13/2006	Granted
RPX Corporation	System and method for implementing shadows using pre-computed textures	United States of America	10153690	5/24/2002	7064755	6/20/2006	Granted
RPX Corporation	Semiconductor device and method for fabricating the same	United States of America	10853128	5/26/2004	7067382	6/27/2006	Granted
RPX Corporation	Multi-tier keypad assembly	United States of America	11015086	12/17/2004	7067757	6/27/2006	Granted
RPX Corporation	Receiver for a spread spectrum system	United States of America	10149243	9/24/2002	7068710	6/27/2006	Granted
RPX Corporation	Integrated acd and ivr scripting for call center tracking of calls	United States of America	09513784	2/25/2000	7068774	6/27/2006	Granted
RPX Corporation	Method and apparatus for a multi-channel high speed framer	United States of America	10327456	12/20/2002	7069407	6/27/2006	Granted
RPX Corporation	Parallel data interface and method for high-speed timing adjustment	United States of America	10222129	8/16/2002	7069458	6/27/2006	Granted
RPX Corporation	Method and apparatus for controlling a user's PC through an audio-visual broadcast to archive information in the user's PC	United States of America	10785377	2/24/2004	7069582	6/27/2006	Granted
RPX Corporation	Systems for voice and data communications having TDM and packet buses and telephony station cards including voltage generators	United States of America	09843642	5/25/2001	7072330	7/4/2006	Granted
RPX Corporation	Reordering of out-of-order packets	United States of America	10103393	3/20/2002	7072342	7/6/2006	Granted
RPX Corporation	System and method for incremental replication of changes in a state based distributed database	United States of America	10202518	7/24/2002	7072911	7/4/2006	Granted
RPX Corporation	Key-based collision detection algorithm for multi-initiator domain validation	United States of America	09540163	3/31/2000	7072988	7/4/2006	Granted
RPX Corporation	Device identification method for systems having multiple device	United States of America	10331673	12/26/2002	7073018	7/4/2006	Granted

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	branches						
RPX Corporation	Method and apparatus for assembling non-aligned packet fragments over multiple cycles	United States of America	10317874	12/11/2002	7073019	7/4/2006	Granted
RPX Corporation	Methods and apparatus for protecting information	United States of America	10737079	12/16/2003	7073197	7/7/2006	Granted
RPX Corporation	Foldable portable telephone	United States of America	09938592	8/27/2001	7079877	7/18/2006	Granted
RPX Corporation	High volume secure internet server	United States of America	09874813	6/5/2001	7085923	8/1/2006	Granted
RPX Corporation	Battery pack having integral optical reader for wireless communication device	United States of America	09627197	7/27/2000	7089291	8/8/2006	Granted
RPX Corporation	System and method for caching and validating user and command specific server response messages	United States of America	10424227	4/25/2003	7089296	8/8/2006	Granted
RPX Corporation	Back light illuminating unit	United States of America	10494780	5/5/2004	7090387	8/15/2006	Granted
RPX Corporation	Method for fabricating a semiconductor device having a pocket dopant diffused layer	United States of America	09662358	9/15/2000	7091093	8/15/2006	Granted
RPX Corporation	Remote color characterization for delivery of high fidelity images	United States of America	09603520	6/23/2000	7092008	8/15/2006	Granted
RPX Corporation	System and method for improved compression of DCT compressed images	United States of America	10192181	7/9/2002	7092965	8/15/2006	Granted
RPX Corporation	Method and system for secure remote distributed rendering	United States of America	09608938	6/30/2000	7092983	8/15/2006	Granted
RPX Corporation	Native lookup instruction for file-access processor searching a three-level lookup cache for variable-length keys	United States of America	10249359	4/2/2006	7093099	8/15/2006	Granted
RPX Corporation	Pattern formation method and exposure system	United States of America	10640061	6/14/2003	7094521	8/22/2006	Granted
RPX Corporation	Circuit board with localized stiffener for enhanced circuit component reliability	United States of America	10717839	11/20/2003	7094975	8/22/2006	Granted
RPX Corporation	System and method for preventing an illegal copy of contents	United States of America	09792194	2/22/2001	7095853	8/22/2006	Granted
RPX Corporation	Method for fabricating semiconductor device and semiconductor device	United States of America	10774522	2/10/2004	7098154	8/29/2006	Granted
RPX Corporation	Programmable multi-service queue scheduler	United States of America	09957750	9/21/2001	7099275	8/29/2006	Granted

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RPX Corporation	Communication protocol for the broadcast of first/last event detection over a single communication channel	United States of America	09822979	3/30/2001	7103071	9/5/2006	Granted
RPX Corporation	Communication protocol for the broadcast of first/last event detection over a single communication channel	United States of America	11071613	3/3/2005	7103696	9/5/2006	Granted
RPX Corporation	Dynamic resizing of clickable areas of touch screen applications	United States of America	10384987	3/10/2003	7103852	9/5/2006	Granted
RPX Corporation	Remote-agent-object based multilevel browser	United States of America	09702455	10/31/2000	7107536	9/12/2006	Granted
RPX Corporation	Apparatuses and methods for modeling shared bus systems	United States of America	10090353	3/1/2002	7110928	9/19/2006	Granted
RPX Corporation	Method and apparatus for launching a web site with non-standard control input device	United States of America	09382373	8/24/1999	7117240	10/3/2006	Granted
RPX Corporation	System and method for providing computer upgrade information	United States of America	10914927	8/10/2004	7117355	10/3/2006	Granted
RPX Corporation	Method and computer program product for precise feedback data generation and updating for compile-time optimizations	United States of America	09560555	4/28/2000	7120906	10/10/2006	Granted
RPX Corporation	Method and system for a feed-forward encoder	United States of America	10822183	4/8/2004	7123173	10/17/2006	Granted
RPX Corporation	Wireless telephone and wireless telephone system	United States of America	10344899	2/26/2003	7123903	10/17/2006	Granted
RPX Corporation	Method and device for synchronizing integrated circuits	United States of America	10298307	11/28/2002	7127632	10/24/2006	Granted
RPX Corporation	Methods of improving reliability of an electro-optical module	United States of America	10268275	10/9/2002	7129722	10/31/2006	Granted
RPX Corporation	Addressable imager with real time defect detection and substitution	United States of America	10043768	1/10/2002	7129975	10/31/2006	Granted
RPX Corporation	Methods for providing voice/data communication systems and voice/data communications via a portal	United States of America	11080076	3/14/2005	7130279	10/31/2006	Granted
RPX Corporation	Protecting images with an image watermark	United States of America	09931210	8/16/2001	7130442	10/31/2006	Granted
RPX Corporation	Method and apparatus for increasing the performance of communications between a host processor and a SATA or ATA device	United States of America	10191958	7/8/2002	7130932	10/31/2006	Granted

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RPX Corporation	Pattern formation method	United States of America	10661542	9/15/2002	7132224	11/7/2006	Granted
RPX Corporation	Composition for forming porous film, porous film and method for forming the same, interlevel insulator film, and semiconductor device	United States of America	10706862	11/12/2003	7132473	11/7/2006	Granted
RPX Corporation	Pattern formation method	United States of America	10713217	11/17/2003	7135273	11/14/2006	Granted
RPX Corporation	System and method for providing a wide aspect ratio flat panel display monitor independent white-balance adjustment and gamma correction capabilities	United States of America	10650030	8/25/2003	7136076	11/14/2006	Granted
RPX Corporation	System and method for providing quality of service operations using IP addresses	United States of America	09939447	8/24/2001	7136382	11/14/2006	Granted
RPX Corporation	Network architecture and system for delivering bi-directional xDSL based services	United States of America	10223832	8/19/2002	7136397	11/14/2006	Granted
RPX Corporation	Integrated circuit verification scheme	United States of America	10645789	8/20/1003	7137087	11/14/2006	Granted
RPX Corporation	Multiple byte data path encoding/decoding device and method	United States of America	10937138	9/9/2004	7138930	11/21/2006	Granted
RPX Corporation	Semiconductor device and method for fabricating the same	United States of America	10676877	10/2/2003	7141477	11/28/2006	Granted
RPX Corporation	Systems and methods for voice and data communications including a network drop and insert interface for an external data routing resource	United States of America	10187861	7/1/2002	7706359	4/27/2010	Granted
RPX Corporation	System and method for providing optimized receiver architectures for combined pilot and data signal tracking	United States of America	11170876	6/30/2005	7706431	4/27/2010	Granted
RPX Corporation	Self-tuning time interpolator	United States of America	11464148	8/11/2006	7716513	5/11/2010	Granted
RPX Corporation	Distributed graphics processing apparatus and method	United States of America	11027752	12/30/2004	7716683	5/11/2010	Granted
RPX Corporation	Method for forming a gate insulating film	United States of America	12349192	1/6/2009	7727911	6/1/2010	Granted
RPX Corporation	Distributed intelligent virtual server	United States of America	10116511	4/5/2002	7734778	6/8/2010	Granted
RPX Corporation	Protected IP telephony calls using encryption	United States of America	10973754	10/26/2004	7734908	6/8/2010	Granted

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RPX Corporation	Embedded resistor and capacitor circuit and method of fabricating same	United States of America	11891067	8/8/2007	7737818	6/15/2010	Granted
RPX Corporation	Method and system for minimizing an amount of data needed to test data against subarea boundaries in spatially composited digital video	United States of America	12103586	4/15/2008	7737982	6/15/2010	Granted
RPX Corporation	Method and apparatus for creating, assembling, and organizing compound media objects	United States of America	11105872	4/13/2005	7739306	6/15/2010	Granted
RPX Corporation	Launching a web site using a personal device	United States of America	12136655	6/10/2008	7739353	6/15/2010	Granted
RPX Corporation	Methods for providing a report database for a plurality of localized devices using an abstraction layer and atomic error handling	United States of America	10915588	8/9/2004	7739365	6/15/2010	Granted
RPX Corporation	Semiconductor device with multilayered metal pattern	United States of America	11984127	11/14/2007	7741207	6/22/2010	Granted
RPX Corporation	Method and apparatus to customize layout and presentation	United States of America	11246441	10/6/2005	7743323	6/22/2010	Granted
RPX Corporation	Method and system for single signon for multiple remote sites of a computer network	United States of America	10264527	10/3/2002	7743404	6/22/2010	Granted
RPX Corporation	Pointguard: method and system for protecting programs against pointer corruption attacks	United States of America	10313940	12/6/2002	7752459	7/6/2010	Granted
RPX Corporation	System, method and graphical user interface for identifying image from remote site during screen sharing	United States of America	10132705	4/26/2002	7757001	7/13/2010	Granted
RPX Corporation	Structured puncturing of irregular low-density parity-check (LDPC) codes	United States of America	11573620	5/22/2007	7757150	7/13/2010	Granted
RPX Corporation	Method and apparatus for an improved file repository	United States of America	10954380	9/29/2004	7761678	7/20/2010	Granted
RPX Corporation	Method for providing different polarities of power supplied over ethernet cables	United States of America	11975443	10/18/2007	7761722	7/20/2010	Granted
RPX Corporation	System and method for providing interframe compression in a graphics session	United States of America	10109835	3/29/2002	7769900	8/3/2010	Granted
RPX Corporation	Semiconductor manufacturing apparatus and pattern formation method	United States of America	11143667	6/3/2005	7771918	8/10/2010	Granted
RPX Corporation	Flexible landscape display system for	United States of	11368452	3/7/2006	7773085	8/10/2010	Granted



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	information display and control	America					
RPX Corporation	Media fusion remote access system	United States of America	11368625	3/7/2006	7774430	8/10/2010	Granted
RPX Corporation	Method and system for single signon for multiple remote sites of a computer network	United States of America	11801933	5/11/2007	7774612	8/10/2010	Granted
RPX Corporation	Permutable switching network with enhanced multicasting signals routing for interconnection fabric	United States of America	12703624	2/10/2010	7777519	8/17/2010	Granted
RPX Corporation	Method and apparatus for co-socket telephony	United States of America	11142370	6/2/2005	7778237	8/17/2010	Granted
RPX Corporation	Establishing communication tunnels	United States of America	10637648	8/11/2003	7779152	8/17/2010	Granted
RPX Corporation	System and Method for Providing a Wide Aspect Ratio Flat Panel Display Monitor Independent White-Balance Adjustment and Gamma Correction Capabilities	United States of America	11559847	11/14/2006	7782345	8/24/2010	Granted
RPX Corporation	Omni-protocol engine for reconfigurable bit-stream processing in high-speed networks	United States of America	11466367	8/22/2006	7782873	8/24/2010	Granted
RPX Corporation	Method and system for distributed rendering	United States of America	09609046	6/30/2010	7783695	8/24/2010	Granted
RPX Corporation	Sensing data input	United States of America	09738710	12/15/2010	7787666	8/31/2010	Granted
RPX Corporation	Techniques for modeling and evaluating protocol interactions	United States of America	11290341	11/30/2005	7792049	9/7/2010	Granted
RPX Corporation	Methods and systems for connecting mobile nodes to private networks	United States of America	11010594	12/13/2004	7792072	9/7/2010	Granted
RPX Corporation	Method and apparatus for allowing a broadcast to remotely control a computer	United States of America	09382374	8/24/1999	7792696	9/7/2010	Granted
RPX Corporation	Methods and apparatus for storage and processing of routing information	United States of America	11361970	2/27/2006	7796587	9/14/2010	Granted
RPX Corporation	Receiver and reception method	United States of America	11454788	6/19/2006	7796677	9/14/2010	Granted
RPX Corporation	Semiconductor device and method for fabricating the same	United States of America	12185578	4/4/2008	7808077	10/5/2010	Granted
RPX Corporation	Methods and apparatus for improved memory access	United States of America	11806012	5/29/2007	7808844	10/5/2010	Granted
RPX Corporation	Video entity recognition in compressed digital video streams	United States of America	11397815	4/4/2006	7809154	10/5/2010	Granted

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RPX Corporation	Apparatus, and associated method, for providing an operation parameter to a mobile station of a radio communication station	United States of America	9918394	7/30/2001	7809364	10/5/2010	Granted
RPX Corporation	Camera handling system	United States of America	12380635	3/2/2009	7812858	10/12/2010	Granted
RPX Corporation	Method and apparatus for co-socket telepho	United States of America	11142189	6/2/2005	7813333	10/12/2010	Granted
RPX Corporation	Method and apparatus for co-socket telephony	United States of America	11142369	6/2/2005	7813334	10/12/2010	Granted
RPX Corporation	Method for forming inlaid interconnect	United States of America	12632397	12/7/2009	7816267	10/19/2010	Granted
RPX Corporation	Retrieving personal account information from a web site by reading a credit card	United States of America	09642891	8/21/2000	7818423	10/19/2010	Granted
RPX Corporation	Portable scanner for enabling automatic commerce transactions	United States of America	11868599	10/8/2007	7819316	10/26/2010	Granted
RPX Corporation	Modular chassis providing scalable mechanical, electrical and environmental functionality for MicroTCA and Advanced TCA boards	United States of America	11728718	3/26/2007	7821790	10/26/2010	Granted
RPX Corporation	System and method for policing multiple data flows and multi-protocol data flows	United States of America	12252108	10/15/2008	7822048	10/26/2010	Granted
RPX Corporation	Method for interfacing scanned product information with a source for the product over a global network	United States of America	12189601	8/11/2008	7822829	10/26/2010	Granted
RPX Corporation	Federated multiprotocol communication	United States of America	11094130	3/31/2005	7822865	10/26/2010	Granted
RPX Corporation	Linearized digital phase-locked loop method for maintaining end of packet time linearity	United States of America	10959259	10/5/2004	7826581	11/2/2010	Granted
RPX Corporation	Shelf management controller with hardware/software implemented dual redundant configuration	United States of America	11626334	11/23/2007	7827442	11/2/2010	Granted
RPX Corporation	Color computation of pixels using a plurality of vertex or fragment shader programs	United States of America	11183848	7/19/2005	7830390	11/9/2010	Granted
RPX Corporation	Simultaneous readout of CMOS APS imagers	United States of America	12456167	6/12/2009	7830431	11/9/2010	Granted
RPX Corporation	Method and apparatus for providing multi-protocol, multi-stage, real-time frame classification	United States of America	11950651	12/5/2007	7835375	11/16/2010	Granted

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RPX Corporation	Automated adjustment of ip address lease time based on usage	United States of America	12186478	8/5/2008	7836186	11/16/2010	Granted
RPX Corporation	Method and System for Improved Internet Color	United States of America	12041596	3/3/2008	7839415	11/23/2010	Granted
RPX Corporation	Reception of a spread spectrum modulated signal	United States of America	11587109	7/23/2007	7839915	11/23/2010	Granted
RPX Corporation	Methods and apparatus for debugging software	United States of America	11643102	12/21/2006	7840849	11/23/2010	Granted
RPX Corporation	Method and apparatus for separation of control and data packets	United States of America	10325555	12/18/2002	7843922	11/30/2010	Granted
RPX Corporation	Power line communication network	United States of America	12168576	7/7/2008	8526418	9/3/2013	Granted
RPX Corporation	Image projector and an illuminating unit suitable for use in an image projector	United States of America	13203834	8/29/2011	8690341	4/8/2014	Granted
RPX Corporation	Object detection apparatus and object detection method	United States of America	12742869	5/13/2010	8693791	4/8/2014	Granted
RPX Corporation	Iterative and dynamic search of publicly available data based on augmentation of search terms and validation of data relevance	United States of America	13303923	11/23/2011	8706716	4/22/2014	Granted
RPX Corporation	System and method for synchronizing multiple media devices	United States of America	13205149	8/8/2011	8726061	5/13/2014	Granted
RPX Corporation	Techniques for securing content in an untrusted environment	United States of America	12957336	11/30/2010	8731201	5/20/2014	Granted
RPX Corporation	Systems and methods for providing voice/data communication systems and voice/data communications	United States of America	11590654	10/30/2006	8737993	5/27/2014	Granted
RPX Corporation	Image processing device, image processing method and storage medium	United States of America	12903838	10/13/2010	8744199	6/3/2014	Granted
RPX Corporation	Method, Apparatus and Computer Program product for Providing a Word Input Mechanism	United States of America	12016383	1/18/2018	8756527	6/17/2014	Granted
RPX Corporation	System and Method for controlling a camera shutter	United States of America	12658508	2/5/2010	8773582	7/8/2014	Granted
RPX Corporation	Techniques for reducing storage space and detecting corruption in hash-based application	United States of America	12019671	1/25/2008	8776191	7/8/2014	Granted
RPX Corporation	Method and apparatus for an improved file repository	United States of America	13330673	12/20/2011	8793450	7/29/2014	Granted
RPX Corporation	Electronic signature security algorithms	United States of America	13348191	1/11/2012	8799165	8/5/2014	Granted

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RPX Corporation	Programmable queuing	United States of America	13723380	12/21/2012	8806089	8/12/2014	Granted
RPX Corporation	Server based malware screening	United States of America	13652103	10/15/2012	8806635	8/12/2014	Granted
RPX Corporation	Universal user input/output application layers	United States of America	11752914	5/23/2007	8819311	8/26/2014	Granted
RPX Corporation	Email notification of voice messages	United States of America	12538796	8/10/2009	8830991	9/9/2014	Granted
RPX Corporation	Techniques for application data scrubbing, reporting, and analysis	United States of America	12050414	3/18/2008	8838652	9/16/2014	Granted
RPX Corporation	Network browser based virus detection	United States of America	12372413	2/17/2009	8839431	9/16/2014	Granted
RPX Corporation	Brokering state information and identity among user agents, origin servers, and proxies	United States of America	13118185	5/27/2011	8850017	9/30/2014	Granted
RPX Corporation	Apparatus, method, device and computer program product providing enhanced text copy capability with touch input display	United States of America	11478710	6/29/2006	8873858	10/28/2014	Granted
RPX Corporation	Web browser accessible search engine which adapts based on user interaction	United States of America	12368977	2/10/2009	8886637	11/11/2014	Granted
RPX Corporation	Search system employing multiple image based search processing approaches	United States of America	13662807	10/29/2012	8892588	11/18/2014	Granted
RPX Corporation	Systems and methods for remote control of a television	United States of America	14279456	5/16/2014	8896765	11/25/2014	Granted
RPX Corporation	Cmos pixel with dual gate pmos	United States of America	11068365	2/28/2005	7109537	9/19/2006	Granted
RPX Corporation	Secure user action request indicator	United States of America	09525806	3/15/2000	7124439	10/17/2006	Granted
RPX Corporation	Methods and system for fast session establishment between equipment using h.324 and related telecommunications protocols	United States of America	10732917	12/9/2003	7139279	11/21/2006	Granted
RPX Corporation	Method and apparatus for protecting information and privacy	United States of America	11072696	3/4/2005	7747873	6/29/2010	Granted
RPX Corporation	Method and apparatus for building an application interface	United States of America	10434282	5/9/2003	7752551	7/6/2010	Granted
RPX Corporation	Method and apparatus to secure a computing environment	United States of America	10739552	12/17/2003	7797752	9/14/2010	Granted
RPX Corporation	Systems, methods,	United States of America	12942986	11/9/2010	8886957	11/11/2014	Granted

Owner	Title	Country	Application No.	Filing Date	Patent No.	Issue Date	Patent Status
Corporation	software, and components using tamper-proof real-time clock	States of America					

### United States Patent Applications:

Owner	Title	Country	Application No.	Filing Date	Patent / Publication No.	Issue Date	Patent Status
RPX Corporation	Radio Controller System And Method For Remote Devices	United States of America	14/815208	07/31/2015			Pending (allowed)
RPX Corporation	Systems and Methods for Remote Control of a Television	United States of America	15/681845	08/21/2017			Pending
RPX Corporation	Control flow integrity	United States of America	13/136024	07/19/2011			Pending
RPX Corporation	RECEIPT AND NOTIFICATION OF MESSAGES WITH IMAGE DATA	United States of America	14/261394	04/24/2014	US14/261394		Pending
RPX Corporation	TILE BASED RENDERING OF SMOOTH POINTS USING POLYGONS	United States of America	15451332	03/06/2017	US2017017836 7A1		Pending
RPX Corporation	Enforcing control flow integrity using instructions in an instruction set architecture that include operands with a least a portion configured for determining control flow integrity	United States of America	13136024	7/19/2011	US2013002467 6	1/24/2013	Pending
RPX Corporation	Method and apparatus for selectively enabling a microprocessor-based system	United States of America	15490783	4/18/2017	US2017032310 3	11/9/2017	Pending
RPX Corporation	Considering selling exemplar-based goods, items or services	United States of America	15421104	1/31/2017	US2017020657 9	7/20/2017	Pending
RPX Corporation	Method and apparatus for segmented sequential storage	United States of America	14920590	10/22/2015	US2016009827 9	4/7/2016	Pending
RPX Corporation	Behavioral fingerprinting via corroborative user device	United States of America	13665841	10/31/2012	US2014012324 9	5/1/2014	Pending
RPX Corporation	Programmable logic unit and method for translating and processing instructions using interpretation registers	United States of America	14064157	10/27/2013	US2014005296 4	2/20/2014	Pending
RPX Corporation	Behavioral fingerprinting with	United States of America	13711518	12/11/2012	US2013019796 8	8/1/2013	Pending

Owner	Title	Country	Application No.	Filing Date	Patent / Publication No.	Issue Date	Patent Status
	retail monitoring						
RPX Corporation	Social network based trust verification Schema	United States of America	13373682	11/23/2011	US2013019188 7A1		Pending
RPX Corporation	Behavioral fingerprinting via social network verification	United States of America	13673506	11/9/2012	US2013015161 7	6/13/2013	Pending
RPX Corporation	Relationship based trust verification schema	United States of America	13552502	7/18/2012	US2013013305 4	5/23/2013	Pending
RPX Corporation	No title available	United States of America	15727493	10/06/2017			Pending

SCHEDULE 1  
to  
PATENT SECURITY AGREEMENT

UNITED STATES PATENTS AND PATENT APPLICATIONS

United States Patents:

Owner	Title	Country	Application No.	Filing Date	Patent No.	Issue Date	Patent Status
RPX Clearinghouse LLC	Q-in-q ethernet rings	United States of America	14251999	04/14/2014	9319268	4/19/2016	Granted
RPX Clearinghouse LLC	Method and apparatus for traffic shaping in a broadband fiber-based access system	United States of America	09084370	05/27/1998	6229788	05/08/2001	Granted
RPX Clearinghouse LLC	ESD/EMC gasket	United States of America	09085226	05/27/1998	6080930	06/27/2000	Granted
RPX Clearinghouse LLC	Providing data services to telecommunications user terminals	United States of America	09086116	05/28/1998	6396853	05/28/2002	Granted
RPX Clearinghouse LLC	Neighborhood list assimilation for cell-based microsystem	United States of America	09086299	05/28/1998	6421328	07/16/2002	Granted
RPX Clearinghouse LLC	Communications network	United States of America	09089728	06/03/1998	6487194	11/26/2002	Granted
RPX Clearinghouse LLC	Method and system for heuristically designing and managing a network	United States of America	09092411	06/04/1998	6363420	03/26/2002	Granted
RPX Clearinghouse LLC	System for transferring STM calls through ATM network by converting the STM calls to ATM and vice versa at the edge nodes of ATM network	United States of America	09092847	06/08/1998	6195714	02/27/2001	Granted
RPX Clearinghouse LLC	Loudspeaker-dependent audio compression	United States of America	09092851	06/08/1998	6201873	03/13/2001	Granted
RPX Clearinghouse LLC	Method and system for solving cellular communications frequency planning problem	United States of America	09096426	06/11/1998	6178328	01/23/2001	Granted
RPX Clearinghouse LLC	Methods and systems for call forwarding	United States of America	09096657	06/12/1998	6421339	07/16/2002	Granted
RPX Clearinghouse LLC	Message hub	United States of America	09098951	06/17/1998	6219353	04/17/2001	Granted
RPX Clearinghouse LLC	Transmission system for reduction of amateur radio interference	United States of America	09100010	06/19/1998	6522699	02/18/2003	Granted
RPX	Method for	United	09100590	06/19/1998	6483833	11/19/2002	Granted

Owner	Title	Country	Application No.	Filing Date	Patent No.	Issue Date	Patent Status
Clearinghouse LLC	transmitting label switching control information using the open shortest path first opaque link state advertisement option protocol	States of America					
RPX Clearinghouse LLC	Modular scalable packet scheduler with rate based shaping and virtual port scheduler	United States of America	09105469	06/26/1998	6359884	03/19/2002	Granted
RPX Clearinghouse LLC	Address routing using address-sensitive mask decimation scheme	United States of America	09107039	06/29/1998	6223172	04/24/2001	Granted
RPX Clearinghouse LLC	Method of implementing quality-of-service data communications over a short-cut path through a routed network	United States of America	09107080	06/29/1998	6625156	09/23/2003	Granted
RPX Clearinghouse LLC	Method for synchronizing network address translator (NAT) tables using the open shortest path first opaque link state advertisement option protocol	United States of America	09107097	06/29/1998	6418476	07/09/2002	Granted
RPX Clearinghouse LLC	Method and apparatus for performing radix lookups using transition bits and fields in transition tables	United States of America	09108468	07/01/1998	6185570	02/06/2001	Granted
RPX Clearinghouse LLC	Method and apparatus for performing hash lookups using valid bit tables with pointers	United States of America	09108469	07/01/1998	6247014	06/12/2001	Granted
RPX Clearinghouse LLC	Method and apparatus for performing radix lookups using valid bit tables with pointers	United States of America	09108711	07/01/1998	6223174	04/24/2001	Granted
RPX Clearinghouse LLC	Method and apparatus for performing radix lookups using transition tables with pointers	United States of America	09108751	07/01/1998	6233574	05/15/2001	Granted
RPX Clearinghouse LLC	Communicating network resource locators to customer premises equipment using modified ring access	United States of America	09109863	07/06/1998	6304651	10/16/2001	Granted
RPX Clearinghouse LLC	Method and apparatus for communicating data across multiple communication links	United States of America	09110104	07/01/1998	6272145	08/07/2001	Granted
RPX Clearinghouse LLC	Interactive on line code inspection process and tool	United States of America	09111682	07/08/1998	6275223	08/14/2001	Granted
RPX Clearinghouse LLC	Address translation method and system having a forwarding	United States of America	09111718	07/08/1998	6141738	10/31/2000	Granted



Owner	Title	Country	Application No.	Filing Date	Patent No.	Issue Date	Patent Status
	table data structure						
RPX Clearinghouse LLC	Carrying speech-band signals over a power line communications system	United States of America	09114778	07/13/1998	6404773	06/11/2002	Granted
RPX Clearinghouse LLC	Transmitting communications signals over a power line network	United States of America	09114779	07/13/1998	5977650	11/02/1999	Granted
RPX Clearinghouse LLC	Apparatus for classifying a packet within a data stream in a computer network	United States of America	09118339	07/16/1998	6526066	02/25/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for speech recognition	United States of America	09119621	07/21/1998	6092045	07/18/2000	Granted
RPX Clearinghouse LLC	Virtual switching for interconnected networks	United States of America	09122433	07/24/1998	6434156	08/13/2002	Granted
RPX Clearinghouse LLC	Fault tolerant system and method	United States of America	09126855	07/31/1998	6327675	12/04/2001	Granted
RPX Clearinghouse LLC	Method and apparatus for secure data storage using distributed databases	United States of America	09128350	08/03/1998	6363481	03/26/2002	Granted
RPX Clearinghouse LLC	Programmable access carrier selection terminal	United States of America	09129724	08/05/1998	6222911	04/24/2001	Granted
RPX Clearinghouse LLC	Multi-protocol label switching virtual private networks	United States of America	09131051	08/07/1998	7039687	05/02/2006	Granted
RPX Clearinghouse LLC	Virtual private networks	United States of America	09131190	08/07/1998	6516417	02/04/2003	Granted
RPX Clearinghouse LLC	QoS based route determination method for communications networks	United States of America	09134924	08/17/1998	6377551	04/23/2002	Granted
RPX Clearinghouse LLC	Method and apparatus for controlling a conference call	United States of America	09135204	08/17/1998	6236854	05/22/2001	Granted
RPX Clearinghouse LLC	Polarization mode dispersion compensation	United States of America	09135967	08/18/1998	6271952	08/07/2001	Granted
RPX Clearinghouse LLC	Method and apparatus for red (random early detection) and enhancements.	United States of America	09136416	08/19/1998	6333917	12/25/2001	Granted
RPX Clearinghouse LLC	Method for synchronizing network address translator (NAT) tables using the server cache synchronization protocol	United States of America	09137571	08/21/1998	6331984	12/18/2001	Granted
RPX Clearinghouse LLC	System and method for communications management with a network presence icon	United States of America	09137687	08/21/1998	6510452	01/21/2003	Granted
RPX Clearinghouse LLC	Payload mapping in synchronous networks	United States of America	09143465	08/27/1998	6584118	06/24/2003	Granted

Owner	Title	Country	Application No.	Filing Date	Patent No.	Issue Date	Patent Status
RPX Clearinghouse LLC	Frame based data transmission over synchronous digital hierarchy network	United States of America	09143466	08/27/1998	6496519	12/17/2002	Granted
RPX Clearinghouse LLC	Method and device for providing intermediate telephone service with enhanced network reliability	United States of America	09144109	08/31/1998	6393122	05/21/2002	Granted
RPX Clearinghouse LLC	Method and devices for bridging data and telephone networks	United States of America	09144110	08/31/1998	6253249	06/26/2001	Granted
RPX Clearinghouse LLC	Network interconnected computing device, server and notification method	United States of America	09144111	08/31/1998	6393467	05/21/2002	Granted
RPX Clearinghouse LLC	Method and apparatus for routing traffic within a network utilizing linear optimization	United States of America	09144509	08/31/1998	6574669	06/03/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for providing and facilitating interaction with distributed manager information of a network	United States of America	09145050	09/01/1998	6141680	10/31/2000	Granted
RPX Clearinghouse LLC	Touch-screen input device	United States of America	09146232	09/03/1998	6271835	08/07/2001	Granted
RPX Clearinghouse LLC	QAM receiver with improved immunity to crosstalk noise	United States of America	09146341	09/02/1998	6289063	09/11/2001	Granted
RPX Clearinghouse LLC	System for providing stream based and packet based services	United States of America	09148154	09/04/1998	6389034	05/14/2002	Granted
RPX Clearinghouse LLC	Method and apparatus within a switch for performing circular hunts with a window	United States of America	09150314	09/09/1998	6330329	12/11/2001	Granted
RPX Clearinghouse LLC	Echo controller with compensation for variable delay networks	United States of America	09150698	09/10/1998	6324170	11/27/2001	Granted
RPX Clearinghouse LLC	Method and apparatus for measuring voice grade of service in an IP network	United States of America	09151448	09/11/1998	6512746	01/28/2003	Granted
RPX Clearinghouse LLC	Image reject mixer, circuit, and method for image rejection	United States of America	09152838	09/15/1998	6226509	05/01/2001	Granted
RPX Clearinghouse LLC	Method and system for dynamic risk assessment of software systems	United States of America	09153021	09/15/1998	6219805	04/17/2001	Granted
RPX Clearinghouse LLC	Wireline modem, communication system and method of setting-up such	United States of America	09153393	09/15/1998	5991269	11/23/1999	Granted
RPX Clearinghouse LLC	Method and apparatus for MSS spoofing	United States of America	09153585	09/15/1998	6327626	12/04/2001	Granted

Owner	Title	Country	Application No.	Filing Date	Patent No.	Issue Date	Patent Status
RPX Clearinghouse LLC	Data packet processing system and method for a router	United States of America	09154628	09/17/1998	6393026	05/21/2002	Granted
RPX Clearinghouse LLC	Charge transfer circuit for use in imaging systems	United States of America	09157234	09/18/1998	6563539	05/13/2003	Granted
RPX Clearinghouse LLC	Transit trunk subnetwork system	United States of America	09158855	09/23/1998	6282194	08/28/2001	Granted
RPX Clearinghouse LLC	Method of speech recognition	United States of America	09161588	09/28/1998	6246980	06/12/2001	Granted
RPX Clearinghouse LLC	Method of learning in a speech recognition system	United States of America	09161589	09/28/1998	6138097	10/24/2000	Granted
RPX Clearinghouse LLC	Photonic crystal waveguide arrays	United States of America	09165053	10/01/1998	6175671	01/16/2001	Granted
RPX Clearinghouse LLC	Alignment of tirsks using network manager	United States of America	09165120	10/02/1998	6295540	09/25/2001	Granted
RPX Clearinghouse LLC	Method and apparatus for reduction of call setup rate in an ATM network	United States of America	09165189	10/02/1998	6822961	11/23/2004	Granted
RPX Clearinghouse LLC	Custom administrator views of management objects	United States of America	09165507	10/02/1998	6754702	06/22/2004	Granted
RPX Clearinghouse LLC	Role based management independent of the hardware topology	United States of America	09165508	10/02/1998	6539021	03/25/2003	Granted
RPX Clearinghouse LLC	Dynamic presentation of management objectives based on administrator privileges	United States of America	09165509	10/02/1998	6101539	08/08/2000	Granted
RPX Clearinghouse LLC	Efficient recovery of multiple connections in a communication network	United States of America	09167746	10/07/1998	6484206	11/19/2002	Granted
RPX Clearinghouse LLC	System for translating a message from a first transmission protocol to a second transmission protocol	United States of America	09167792	10/07/1998	6597704	07/22/2003	Granted
RPX Clearinghouse LLC	Translator memory management system	United States of America	09167811	10/07/1998	6311222	10/30/2001	Granted
RPX Clearinghouse LLC	Establishing and terminating connections in a mixed protocol network	United States of America	09167839	10/07/1998	6320874	11/20/2001	Granted
RPX Clearinghouse LLC	Connection establishment and termination in a mixed protocol network	United States of America	09167916	10/07/1998	6226676	05/01/2001	Granted
RPX Clearinghouse LLC	Error recovery in a mixed protocol networks	United States of America	09167950	10/07/1998	6618359	09/09/2003	Granted
RPX Clearinghouse LLC	Surface mount EMI gasket filter	United States of America	09168928	10/09/1998	6037846	03/14/2000	Granted

Owner	Title	Country	Application No.	Filing Date	Patent No.	Issue Date	Patent Status
RPX Clearinghouse LLC	Spectrum yield management in a wireless communication system	United States of America	09169022	10/08/1998	6275695	08/14/2001	Granted
RPX Clearinghouse LLC	Virtual port scheduler	United States of America	09170973	10/14/1998	6438132	08/20/2002	Granted
RPX Clearinghouse LLC	Multiple network address resolution	United States of America	09170974	10/14/1998	6212185	04/03/2001	Granted
RPX Clearinghouse LLC	Telephony system and method of signalling	United States of America	09172996	10/16/1998	6381246	04/30/2002	Granted
RPX Clearinghouse LLC	Method of provisioning nodes within a communications network	United States of America	09172997	10/16/1998	6370151	04/09/2002	Granted
RPX Clearinghouse LLC	Air flow distribution device for shelf-based circuit cards	United States of America	09175620	10/20/1998	5995368	11/30/1999	Granted
RPX Clearinghouse LLC	Methods and systems for providing an absent addressing service to customers in a communications network	United States of America	09176484	10/21/1998	6363430	03/26/2002	Granted
RPX Clearinghouse LLC	Web based GUI server and method for a telecommunications node	United States of America	09177609	10/23/1998	6323881	11/27/2001	Granted
RPX Clearinghouse LLC	Communication network utilizing autonomous servers to establish a communication session	United States of America	09181823	10/29/1998	7027430	04/11/2006	Granted
RPX Clearinghouse LLC	Allophonic text-to-speech generator	United States of America	09183002	10/30/1998	6148285	11/14/2000	Granted
RPX Clearinghouse LLC	Method and apparatus for automatic call setup in different network domains	United States of America	09184030	11/02/1998	6240449	05/29/2001	Granted
RPX Clearinghouse LLC	Integration of stimulus signalling protocol communication systems and message protocol communication systems	United States of America	09185361	11/03/1998	6470020	10/22/2002	Granted
RPX Clearinghouse LLC	Line testing method and apparatus therefor	United States of America	09185390	11/03/1998	6373923	04/16/2002	Granted
RPX Clearinghouse LLC	Enhanced network subscriber service (ENSS)	United States of America	09185492	11/03/1998	6327344	12/04/2001	Granted
RPX Clearinghouse LLC	ABR flow control using single bit congestion indication and wavelet transform filtering	United States of America	09185635	11/04/1998	6584111	06/24/2003	Granted
RPX Clearinghouse LLC	Optical amplifier gain control	United States of America	09185932	11/04/1998	6166850	12/26/2000	Granted

Owner	Title	Country	Application No.	Filing Date	Patent No.	Issue Date	Patent Status
LLC		America					
RPX Clearinghouse LLC	Device which reduces central office battery current during modem connections	United States of America	09186643	11/06/1998	6480603	11/12/2002	Granted
RPX Clearinghouse LLC	Multimedia channel management through PSTN signaling	United States of America	09187975	11/06/1998	6430176	08/06/2002	Granted
RPX Clearinghouse LLC	Local area network incorporating universal serial bus protocol	United States of America	09188297	11/10/1998	6389029	05/14/2002	Granted
RPX Clearinghouse LLC	Channel integrity in a voice-on-ATM network	United States of America	09189605	11/10/1998	6381219	04/30/2002	Granted
RPX Clearinghouse LLC	Reworkable laser welding process	United States of America	09189619	11/09/1998	6310315	10/30/2001	Granted
RPX Clearinghouse LLC	Managing internet protocol connection oriented services	United States of America	09190081	11/12/1998	6522627	02/18/2003	Granted
RPX Clearinghouse LLC	Voice over internet protocol network architecture	United States of America	09190082	11/12/1998	6507577	01/14/2003	Granted
RPX Clearinghouse LLC	Automatic test equipment scan test enhancement	United States of America	09190292	11/13/1998	6256760	07/03/2001	Granted
RPX Clearinghouse LLC	Extended internet protocol virtual private network architectures	United States of America	09191142	11/13/1998	6493349	12/10/2002	Granted
RPX Clearinghouse LLC	Internet protocol virtual private network realization using multi-protocol label switching tunnels	United States of America	09191845	11/13/1998	6205488	03/20/2001	Granted
RPX Clearinghouse LLC	Polarization independent all-optical regenerators	United States of America	09193753	11/17/1998	6337755	01/08/2002	Granted
RPX Clearinghouse LLC	Tools for wireless network planning	United States of America	09195556	11/19/1998	6336035	01/01/2002	Granted
RPX Clearinghouse LLC	Method and apparatus for providing differentiated services using a multi-level queuing mechanism	United States of America	09195573	11/18/1998	6608816	08/19/2003	Granted
RPX Clearinghouse LLC	Automated competitive business call distribution (ACBCD) system	United States of America	09195774	11/18/1998	6526135	02/25/2003	Granted
RPX Clearinghouse LLC	Communication protocol stack apparatus and method of implementing same	United States of America	09196344	11/19/1998	6480507	11/12/2002	Granted
RPX Clearinghouse LLC	Personal mobility and communication termination for users operating in a plurality of heterogeneous networks	United States of America	09198063	11/23/1998	6161008	12/12/2000	Granted
RPX Clearinghouse LLC	Data error correction system	United States of America	09200436	11/27/1998	6460154	10/01/2002	Granted

Owner	Title	Country	Application No.	Filing Date	Patent No.	Issue Date	Patent Status
RPX Clearinghouse LLC	Method and system for website overview	United States of America	09201875	11/30/1998	6344851	02/05/2002	Granted
RPX Clearinghouse LLC	Voice-and-fax-over IP dialing plan	United States of America	09201997	12/01/1998	6463053	10/08/2002	Granted
RPX Clearinghouse LLC	Load coil device	United States of America	09204263	12/03/1998	6546100	04/08/2003	Granted
RPX Clearinghouse LLC	Apparatus and method for limiting unauthorized access to a network multicast	United States of America	09204930	12/03/1998	6587943	07/01/2003	Granted
RPX Clearinghouse LLC	System and method for providing desired service policies to subscribers accessing the internet	United States of America	09205041	12/03/1998	6466976	10/15/2002	Granted
RPX Clearinghouse LLC	Digital signal framing systems and methods	United States of America	09207250	12/09/1998	6246736	06/12/2001	Granted
RPX Clearinghouse LLC	EMI shield/ gasket enclosure	United States of America	09207251	12/09/1998	6137051	10/24/2000	Granted
RPX Clearinghouse LLC	Digital signal transmitter and receiver using source based reference logic levels	United States of America	09207255	12/09/1998	6184717	02/06/2001	Granted
RPX Clearinghouse LLC	Apparatus and method of PSTN based network roaming and SCP based subscriber management for internet telephony systems	United States of America	09207938	12/09/1998	6519242	02/11/2003	Granted
RPX Clearinghouse LLC	QoS-oriented one-to-all route selection method for communication networks	United States of America	09208980	12/11/1998	6301244	10/09/2001	Granted
RPX Clearinghouse LLC	Method and apparatus for implementing customer group functionality in a wireless environment	United States of America	09209126	12/10/1998	6611684	08/26/2003	Granted
RPX Clearinghouse LLC	Explicit rate computation for flow control in compute networks	United States of America	09209273	12/11/1998	6549517	04/15/2003	Granted
RPX Clearinghouse LLC	Calling party identification authentication and routing in response thereto	United States of America	09209681	12/11/1998	6327347	12/04/2001	Granted
RPX Clearinghouse LLC	Line interface module	United States of America	09209759	12/11/1998	6061241	05/09/2000	Granted
RPX Clearinghouse LLC	Method and apparatus for high-speed data transmission bus entrainment	United States of America	09210536	12/14/1998	6282592	08/28/2001	Granted
RPX	Method and apparatus	United	09211209	12/14/1998	6272674	08/07/2001	Granted

Owner	Title	Country	Application No.	Filing Date	Patent No.	Issue Date	Patent Status
Clearinghouse LLC	for loading a Java application program	States of America					
RPX Clearinghouse LLC	Apparatus, method and system having reduced power consumption in a multi-carrier wireline environment	United States of America	09211881	12/15/1998	6353628	03/05/2002	Granted
RPX Clearinghouse LLC	Method and apparatus for conservative link selection	United States of America	09212429	12/16/1998	6477582	11/05/2002	Granted
RPX Clearinghouse LLC	Monitor for the control of multimedia services in networks	United States of America	09212650	12/16/1998	6529475	03/04/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for completing telephone calls between subnetworks	United States of America	09213769	12/17/1998	6757285	06/29/2004	Granted
RPX Clearinghouse LLC	Method and apparatus for automatic callback in a telecommunication system	United States of America	09215260	12/18/1998	6339640	01/15/2002	Granted
RPX Clearinghouse LLC	Supertrunking for packet switching	United States of America	09215262	12/18/1998	6587431	07/01/2003	Granted
RPX Clearinghouse LLC	Flow-level demultiplexing within routers	United States of America	09215376	12/18/1998	6510135	01/21/2003	Granted
RPX Clearinghouse LLC	Scheduling technique for delayed queue service	United States of America	09215377	12/18/1998	6574230	06/03/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for communicating a clock signal in a soliton optical transmission system	United States of America	09215547	12/18/1998	6486990	11/26/2002	Granted
RPX Clearinghouse LLC	CDMA frequency planning for fixed wireless application	United States of America	09216674	12/18/1998	6560459	05/06/2003	Granted
RPX Clearinghouse LLC	Method and system in a computer-based system for providing access to services associated with different access points	United States of America	09216935	12/21/1998	6269395	07/31/2001	Granted
RPX Clearinghouse LLC	Line interface battery feed arrangements with PTC resistors	United States of America	09216975	12/21/1998	6507654	01/14/2003	Granted
RPX Clearinghouse LLC	Method of virtual circuit reconnection without loss of call session	United States of America	09216992	12/21/1998	6456626	09/24/2002	Granted
RPX Clearinghouse LLC	Non-contact coupling system	United States of America	09217058	12/21/1998	6111476	08/29/2000	Granted
RPX Clearinghouse LLC	Universal optical network unit for use in narrowband and broadband access networks	United States of America	09217898	12/22/1998	6519255	02/11/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for interfacing a manager and a plant	United States of America	09217910	12/22/1998	6477539	11/05/2002	Granted
RPX	Frame alignment and	United States of America	09218054	12/22/1998	6456654	09/24/2002	Granted

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Clearinghouse LLC	time domain equalization for communications systems using multicarrier modulation	States of America					
RPX Clearinghouse LLC	Conferencing over LAN/WAN using a hybrid client/server configuration	United States of America	09218142	12/22/1998	6327276	12/04/2001	Granted
RPX Clearinghouse LLC	Delay fault testing with IEEE 1149.1	United States of America	09218427	12/22/1998	6286119	09/04/2001	Granted
RPX Clearinghouse LLC	Conferencing arrangement for use with wireless terminals	United States of America	09218429	12/22/1998	6522633	02/18/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for identifying and removing unused software procedures	United States of America	09218814	12/22/1998	6247175	06/12/2001	Granted
RPX Clearinghouse LLC	Symbol alignment method	United States of America	09219005	12/23/1998	6353636	03/05/2002	Granted
RPX Clearinghouse LLC	System and method for ATM-FR interworking of SVC signalling	United States of America	09219317	12/23/1998	6526063	02/25/2003	Granted
RPX Clearinghouse LLC	Multiple quality of service asynchronous transfer mode-frame relay interworking function and method	United States of America	09219437	12/23/1998	6298059	10/02/2001	Granted
RPX Clearinghouse LLC	Short message park and page system and method	United States of America	09219557	12/23/1998	6327478	12/04/2001	Granted
RPX Clearinghouse LLC	Automated short message attendant	United States of America	09219696	12/23/1998	6507735	01/14/2003	Granted
RPX Clearinghouse LLC	Wireless multi-site networking using signaling and voice-over-IP	United States of America	09220232	12/23/1998	6560223	05/06/2003	Granted
RPX Clearinghouse LLC	Scalable gatekeepers in an internet telephony system and a method of operation	United States of America	09220549	12/23/1998	6519249	02/11/2003	Granted
RPX Clearinghouse LLC	Telephony call control using a data network and a graphical user interface and exchanging datagrams between parties to a telephone call	United States of America	09220860	12/28/1998	6868140	03/15/2005	Granted
RPX Clearinghouse LLC	Graphical message notification	United States of America	09220962	12/28/1998	6888927	05/03/2005	Granted
RPX Clearinghouse LLC	Operating system extension to provide security for web-based public access services	United States of America	09220993	12/28/1998	7171686	01/30/2007	Granted
RPX Clearinghouse LLC	Method for ordering subscriber records of wireless communication	United States of America	09221357	12/28/1998	6224477	05/01/2001	Granted



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	networks						
RPX Clearinghouse LLC	Mobile access to a PBX via a TLDN	United States of America	09221382	12/28/1998	6256512	07/03/2001	Granted
RPX Clearinghouse LLC	ATM connection accelerator for use in communication networks	United States of America	09221794	12/28/1998	6483836	11/19/2002	Granted
RPX Clearinghouse LLC	Variable rate optional security measures method and apparatus for wireless communications network	United States of America	09221909	12/28/1998	6014558	01/11/2000	Granted
RPX Clearinghouse LLC	Method and apparatus for connecting a home network to the internet	United States of America	09222835	12/30/1998	6584096	06/24/2003	Granted
RPX Clearinghouse LLC	Cross-media notifications for e-commerce	United States of America	09222926	12/30/1998	6330550	12/11/2001	Granted
RPX Clearinghouse LLC	Method and apparatus for exchanging data between transactional and non-transactional input/output systems in a multi-processing, shared memory environment	United States of America	09223004	12/30/1998	6557056	04/29/2003	Granted
RPX Clearinghouse LLC	SVC signaling system and method	United States of America	09223047	12/30/1998	6597689	07/22/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for time-domain equalization in FDM-based discrete multi-tone modems	United States of America	09223817	12/31/1998	6404806	06/11/2002	Granted
RPX Clearinghouse LLC	Multi-threaded, multi-cast switch	United States of America	09223836	12/31/1998	6473428	10/29/2002	Granted
RPX Clearinghouse LLC	Abstract interface for media and telephony services	United States of America	09223842	12/31/1998	6445776	09/03/2002	Granted
RPX Clearinghouse LLC	Wireless communication system in which a termination access type is identified to a serving mobile switching center	United States of America	09223892	12/31/1998	6278874	08/21/2001	Granted
RPX Clearinghouse LLC	Data network for real time information	United States of America	09223991	12/31/1998	6556561	04/29/2003	Granted
RPX Clearinghouse LLC	Packet voice telephony system and method	United States of America	09224548	12/31/1998	6449269	09/10/2002	Granted
RPX Clearinghouse LLC	Digital multitone communication trunk	United States of America	09224841	12/31/1998	6262972	07/17/2001	Granted
RPX Clearinghouse LLC	Exchanging a secret over an unreliable network	United States of America	09227237	01/08/1999	6182214	01/30/2001	Granted
RPX Clearinghouse LLC	Steering of internet access to sponsors	United States of America	09235869	01/22/1999	6425010	07/23/2002	Granted

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RPX Clearinghouse LLC	Method and system for redirecting web page requests on a TCP/IP network	United States of America	09236159	01/22/1999	6438125	08/20/2002	Granted
RPX Clearinghouse LLC	Integrated telecommunications services for mobile and landline telephony service subscriber	United States of America	09237750	01/26/1999	6496578	12/17/2002	Granted
RPX Clearinghouse LLC	Fault-tolerant java virtual machine	United States of America	09239225	01/30/1999	6421739	07/16/2002	Granted
RPX Clearinghouse LLC	Internet protocol (IP) telecommunication	United States of America	09247915	02/11/1999	6556565	04/29/2003	Granted
RPX Clearinghouse LLC	System and method for providing service control to a single telephone end terminal from multiple service providers	United States of America	09249051	02/12/1999	6657992	12/02/2003	Granted
RPX Clearinghouse LLC	Network resource conservation system	United States of America	09249696	02/12/1999	6636508	10/21/2003	Granted
RPX Clearinghouse LLC	Compact wavelength-independent wavelength-locker for absolute wavelength stability of a laser diode	United States of America	09250879	02/16/1999	6385217	05/07/2002	Granted
RPX Clearinghouse LLC	Method and apparatus for enabling a view of data across a database	United States of America	09253103	02/19/1999	6330555	12/11/2001	Granted
RPX Clearinghouse LLC	Detecting and locating a misbehaving device in a network domain	United States of America	09256700	02/24/1999	6425004	07/23/2002	Granted
RPX Clearinghouse LLC	Establishing shortcuts in a Multiprotocol-over-ATM system	United States of America	09257075	02/24/1999	6671279	12/30/2003	Granted
RPX Clearinghouse LLC	Reducing convergence time by a protocol independent multicast (PIM) router	United States of America	09257866	02/25/1999	6631420	10/07/2003	Granted
RPX Clearinghouse LLC	Displaying computer interfaces in multiple languages	United States of America	09264949	03/09/1999	6559861	05/06/2003	Granted
RPX Clearinghouse LLC	Virtual private networks and methods for their operation	United States of America	09270733	03/16/1999	6937574	08/30/2005	Granted
RPX Clearinghouse LLC	Temperature-compensated optical filter assemblies and related methods	United States of America	09272112	03/19/1999	6384978	05/07/2002	Granted
RPX Clearinghouse LLC	Network address translation in a network having multiple overlapping address domains	United States of America	09274940	03/23/1999	6888837	05/03/2005	Granted
RPX Clearinghouse LLC	Domain name resolution in a network having multiple overlapping address domains	United States of America	09274944	03/23/1999	6493765	12/10/2002	Granted

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RPX Clearinghouse LLC	Fault tolerance for network accounting architecture	United States of America	09276056	03/25/1999	7167860	01/23/2007	Granted
RPX Clearinghouse LLC	Service management	United States of America	09276452	03/25/1999	6446200	09/03/2002	Granted
RPX Clearinghouse LLC	Tunable external cavity laser	United States of America	09281404	03/30/1999	6301274	10/09/2001	Granted
RPX Clearinghouse LLC	Optical switching and attenuation systems and methods therefor	United States of America	09281406	03/30/1999	6404969	06/11/2002	Granted
RPX Clearinghouse LLC	Power line communications system and method of operation thereof	United States of America	09281490	03/30/1999	6522626	02/18/2003	Granted
RPX Clearinghouse LLC	System optimized always on dynamic integrated services digital network	United States of America	09281503	03/30/1999	6493336	12/10/2002	Granted
RPX Clearinghouse LLC	Tool for monitoring health of networks	United States of America	09281945	03/31/1999	6446123	09/03/2002	Granted
RPX Clearinghouse LLC	Managing a virtual private network	United States of America	09285424	04/02/1999	6765591	07/20/2004	Granted
RPX Clearinghouse LLC	Self-configuring distributed switch	United States of America	09286431	04/06/1999	6570872	05/27/2003	Granted
RPX Clearinghouse LLC	Routes and paths management	United States of America	09288565	04/09/1999	6570867	05/27/2003	Granted
RPX Clearinghouse LLC	Method and apparatus providing a cable modem management and provisioning system	United States of America	09289248	04/09/1999	6487592	11/26/2002	Granted
RPX Clearinghouse LLC	Optical partial regeneration of solitons	United States of America	09291186	04/14/1999	6222669	04/24/2001	Granted
RPX Clearinghouse LLC	Telecommunications system	United States of America	09294708	04/19/1999	6587469	07/01/2003	Granted
RPX Clearinghouse LLC	Scheduler implementing weighted fair queuing by a weight limited first in-first out methodology	United States of America	09295215	04/21/1999	6501762	12/31/2002	Granted
RPX Clearinghouse LLC	Collision detection on a differential bus	United States of America	09295652	04/21/1999	6493351	12/10/2002	Granted
RPX Clearinghouse LLC	Collision detection on a differential bus	United States of America	09295714	04/21/1999	6625163	09/23/2003	Granted
RPX Clearinghouse LLC	Internet service provider call redirection	United States of America	09300130	04/27/1999	6459783	10/01/2002	Granted
RPX Clearinghouse LLC	System and method for rerouting data calls to internet service provider via lowest access point in a	United States of America	09300131	04/27/1999	6327358	12/04/2001	Granted

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	telephone network						
RPX Clearinghouse LLC	Dielectric optical filter network	United States of America	09304438	05/03/1999	6301407	10/09/2001	Granted
RPX Clearinghouse LLC	System and method to discover end node physical connectivity to networking devices	United States of America	09305149	05/04/1999	6397248	05/28/2002	Granted
RPX Clearinghouse LLC	Integrated signalling for asynchronous networks	United States of America	09305633	05/05/1999	6549530	04/15/2003	Granted
RPX Clearinghouse LLC	Telephony and data network services at a telephone	United States of America	09307356	05/07/1999	7068641	06/27/2006	Granted
RPX Clearinghouse LLC	Security association mediator for java-enabled devices	United States of America	09307452	05/07/1999	6950932	09/27/2005	Granted
RPX Clearinghouse LLC	Memory management technique for maintaining packet order in a packet processing system	United States of America	09309471	05/10/1999	6601150	07/29/2003	Granted
RPX Clearinghouse LLC	System, device, and method for supporting virtual private networks	United States of America	09309530	05/11/1999	6614791	09/02/2003	Granted
RPX Clearinghouse LLC	Testing a mobile communications system	United States of America	09312950	05/17/1999	6272337	08/07/2001	Granted
RPX Clearinghouse LLC	Method and apparatus for discarding data packets	United States of America	09314563	05/19/1999	6647424	11/11/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for the prioritization of control plane traffic in a router	United States of America	09314567	05/19/1999	6621829	09/16/2003	Granted
RPX Clearinghouse LLC	Multimedia client and server	United States of America	09315042	05/20/1999	6418473	07/09/2002	Granted
RPX Clearinghouse LLC	Method and apparatus for media access control for packet transmission over a buffer insertion ring	United States of America	09320585	05/27/1999	6614805	09/02/2003	Granted
RPX Clearinghouse LLC	Method of assigning frequencies for use during wireless system drive testing	United States of America	09321864	05/28/1999	6411798	06/25/2002	Granted
RPX Clearinghouse LLC	Integrated data centric network (IDCN)	United States of America	09323779	06/01/1999	6522641	02/18/2003	Granted
RPX Clearinghouse LLC	Thread memory reclamation	United States of America	09326007	06/04/1999	6842901	01/11/2005	Granted
RPX Clearinghouse LLC	Method and apparatus for higher-order chromatic dispersion compensation	United States of America	09326079	06/04/1999	6295396	09/25/2001	Granted
RPX Clearinghouse LLC	Methods and systems for controlling network gatekeeper message processing	United States of America	09327049	06/07/1999	6591301	07/08/2003	Granted

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RPX Clearinghouse LLC	Communication system, article and method of configuring and establishing a connection therein	United States of America	09327561	06/08/1999	6449354	09/10/2002	Granted
RPX Clearinghouse LLC	Method and apparatus for reducing load distribution delay in an internet protocol switch	United States of America	09335203	06/17/1999	6587456	07/01/2003	Granted
RPX Clearinghouse LLC	Analog gain control adjustment using a probabilistic algorithm	United States of America	09335836	06/18/1999	6259391	07/10/2001	Granted
RPX Clearinghouse LLC	Cell based data transmission method	United States of America	09337069	06/21/1999	6560206	05/06/2003	Granted
RPX Clearinghouse LLC	Network fault prediction and proactive maintenance system	United States of America	09337209	06/08/1999	6353902	03/05/2002	Granted
RPX Clearinghouse LLC	Method and apparatus for displaying and navigating containment hierarchies	United States of America	09337536	06/22/1999	6691282	02/10/2004	Granted
RPX Clearinghouse LLC	Method and apparatus for optical frequency demodulation of an optical signal using interferometry	United States of America	09338530	06/23/1999	6271959	08/07/2001	Granted
RPX Clearinghouse LLC	Dispersion compensation	United States of America	09338693	06/23/1999	6438287	08/20/2002	Granted
RPX Clearinghouse LLC	System, device, and method for address management in a distributed communication environment	United States of America	09340477	06/30/1999	6597700	07/22/2003	Granted
RPX Clearinghouse LLC	Service selection on IP access networks	United States of America	09342362	06/29/1999	6577627	06/10/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for managing communications between nodes in a bi-directional ring network	United States of America	09345453	07/01/1999	6650618	11/18/2003	Granted
RPX Clearinghouse LLC	Multi-panel route monitoring graphical user interface, system and method	United States of America	09345471	06/30/1999	6654803	11/25/2003	Granted
RPX Clearinghouse LLC	Route monitoring graphical user interface, system and method	United States of America	09345472	06/30/1999	6487604	11/26/2002	Granted
RPX Clearinghouse LLC	Processing communication traffic	United States of America	09346322	07/02/1999	6574224	06/03/2003	Granted
RPX Clearinghouse LLC	Asynchronous transfer mode adaptation arrangements	United States of America	09346323	07/02/1999	6519261	02/11/2003	Granted
RPX	Automatic frequency	United States of America	09351342	07/12/1999	6480718	11/12/2002	Granted

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Clearinghouse LLC	planning for a wireless network	States of America					
RPX Clearinghouse LLC	System, method, and computer program product for network telephone queuing	United States of America	09354372	07/14/1999	6584193	06/24/2003	Granted
RPX Clearinghouse LLC	Supporting multiple services in label switched networks	United States of America	09354651	07/16/1999	6882643	04/19/2005	Granted
RPX Clearinghouse LLC	System and method for transferring information in a hypertext transfer protocol based system	United States of America	09357250	07/20/1999	7099929	08/29/2006	Granted
RPX Clearinghouse LLC	Polarization mode dispersion compensation	United States of America	09358977	07/22/1999	6515778	02/04/2003	Granted
RPX Clearinghouse LLC	Enhanced call delivery system for interoperability between circuit switched and packet switched networks	United States of America	09359818	07/23/1999	6560457	05/06/2003	Granted
RPX Clearinghouse LLC	Method and system for integrating a computer and a telephone	United States of America	09361099	07/26/1999	6549621	04/15/2003	Granted
RPX Clearinghouse LLC	System for controlling the effect of transmitting a document across a packet based network	United States of America	09361540	07/27/1999	6535906	03/18/2003	Granted
RPX Clearinghouse LLC	Resetting surge protection in telephone line interface circuits	United States of America	09361854	07/27/1999	6563926	05/13/2003	Granted
RPX Clearinghouse LLC	Circuit board with reduced noise architecture	United States of America	09362515	07/28/1999	6479761	11/12/2002	Granted
RPX Clearinghouse LLC	Optical switch and protocols for use therewith	United States of America	09362886	07/29/1999	6529301	03/04/2003	Granted
RPX Clearinghouse LLC	Method of setting-up and controlling synchronization within a modem	United States of America	09364132	07/30/1999	6577650	06/10/2003	Granted
RPX Clearinghouse LLC	Geographically separated totem rings	United States of America	09364792	07/30/1999	6647430	11/11/2003	Granted
RPX Clearinghouse LLC	Method of allocating resources in a telecommunications network	United States of America	09368275	08/03/1999	6556548	04/29/2003	Granted
RPX Clearinghouse LLC	Derivation of equivalent bandwidth of an information flow	United States of America	09368276	08/03/1999	6628612	09/30/2003	Granted
RPX Clearinghouse LLC	Method of allocating resources in a telecommunications network	United States of America	09368280	08/03/1999	6498786	12/24/2002	Granted
RPX Clearinghouse LLC	System and method for route optimization in a wireless internet protocol network	United States of America	09369944	08/06/1999	6578085	06/10/2003	Granted
RPX	Recursive	United	09371781	08/10/1999	6721410	04/13/2004	Granted

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Clearinghouse LLC	identification of individuals for casual collaborative conferencing	States of America					
RPX Clearinghouse LLC	Jitter buffer management	United States of America	09374528	08/16/1999	6658027	12/02/2003	Granted
RPX Clearinghouse LLC	Lifeline telephony provision for voice over digital subscriber line	United States of America	09374805	08/16/1999	6272209	08/07/2001	Granted
RPX Clearinghouse LLC	Continuity of voice carried over DSL during power failure	United States of America	09374806	08/16/1999	6647117	11/11/2003	Granted
RPX Clearinghouse LLC	System and method for authentication of caller identification	United States of America	09375396	08/17/1999	6324271	11/27/2001	Granted
RPX Clearinghouse LLC	Voice over digital subscriber line call redirection for lifeline service	United States of America	09375709	08/17/1999	6400803	06/04/2002	Granted
RPX Clearinghouse LLC	Packet communications system and method	United States of America	09375710	08/17/1999	7012922	03/14/2006	Granted
RPX Clearinghouse LLC	VoDSL service provision	United States of America	09375758	08/18/1999	6526058	02/25/2003	Granted
RPX Clearinghouse LLC	Enhanced VoDSL service provision	United States of America	09375759	08/18/1999	6522647	02/18/2003	Granted
RPX Clearinghouse LLC	Network data routing protection cycles for automatic protection switching	United States of America	09378141	08/20/1999	6535481	03/18/2003	Granted
RPX Clearinghouse LLC	Frequency reuse in millimeter-wave point-to-multipoint radio systems	United States of America	09382500	08/25/1999	6421542	07/16/2002	Granted
RPX Clearinghouse LLC	Chromatic dispersion compensation	United States of America	09385939	08/30/1999	6363187	03/26/2002	Granted
RPX Clearinghouse LLC	Constraint-based route selection using biased cost	United States of America	09387036	08/31/1999	6363319	03/26/2002	Granted
RPX Clearinghouse LLC	Mini-backplane "T" assembly	United States of America	09388366	09/01/1999	6243273	06/05/2001	Granted
RPX Clearinghouse LLC	Micromachined members coupled for relative rotation by hinges	United States of America	09388772	09/02/1999	6392220	05/21/2002	Granted
RPX Clearinghouse LLC	Method and apparatus for optical frequency modulation characterization of laser sources	United States of America	09390214	09/08/1999	6178001	01/23/2001	Granted
RPX Clearinghouse LLC	Differentiated services IP quality of services round trip time aware intelligent traffic conditioner in an ingress node of virtual private networks	United States of America	09391418	09/08/1999	6480899	11/12/2002	Granted

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RPX Clearinghouse LLC	System and method for creating a dynamic data file from collected and filtered web pages	United States of America	09392367	09/08/1999	6449636	09/10/2002	Granted
RPX Clearinghouse LLC	Free space optical interconnect system tolerant to misalignments and method of operation thereof	United States of America	09392534	09/09/1999	6509992	01/21/2003	Granted
RPX Clearinghouse LLC	System, method and graphical user interface for building virtual private networks	United States of America	09396452	09/15/1999	6577327	06/10/2003	Granted
RPX Clearinghouse LLC	Connection integrity monitor for digital selection circuits	United States of America	09397968	09/17/1999	6505310	01/07/2003	Granted
RPX Clearinghouse LLC	Multicast-enabled address resolution protocol (ME-ARP)	United States of America	09398370	09/17/1999	6640251	10/28/2003	Granted
RPX Clearinghouse LLC	Apparatus and method for distributing management keys in a multicast domain	United States of America	09400132	09/21/1999	7269728	09/11/2007	Granted
RPX Clearinghouse LLC	Internet-based telephone call manager	United States of America	09401521	09/22/1999	8189747	05/29/2012	Granted
RPX Clearinghouse LLC	Network fault recovery method and apparatus	United States of America	09401919	09/23/1999	6530032	03/04/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for generating phrasal transcriptions	United States of America	09404797	09/24/1999	6408271	06/18/2002	Granted
RPX Clearinghouse LLC	Method and apparatus of remotely updating firmware of a communication device	United States of America	09405095	09/27/1999	6640334	10/28/2003	Granted
RPX Clearinghouse LLC	Methods for auto-configuring a router on an IP subnet	United States of America	09407915	09/29/1999	7702732	04/20/2010	Granted
RPX Clearinghouse LLC	Apparatus and method of configuring a network device	United States of America	09408380	09/29/1999	6684241	01/27/2004	Granted
RPX Clearinghouse LLC	Multi-processor data synchronization method and apparatus	United States of America	09408619	09/30/1999	6345282	02/05/2002	Granted
RPX Clearinghouse LLC	Frequency reuse scheme for point to multipoint radio communication	United States of America	09411294	10/04/1999	6542746	04/01/2003	Granted
RPX Clearinghouse LLC	Accounting method and apparatus for communications network	United States of America	09412099	10/04/1999	7092696	08/15/2006	Granted
RPX Clearinghouse LLC	System for tracking the history of channel based network devices	United States of America	09412689	10/05/1999	6662208	12/09/2003	Granted
RPX Clearinghouse LLC	Multi-mode endpoint in a communication network system and methods thereof	United States of America	09414762	10/07/1999	6987756	01/17/2006	Granted
RPX Clearinghouse	Apparatus and method of maintaining timely	United States of	09417155	10/12/1999	6560654	05/06/2003	Granted



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LLC	topology data within a link state routing network	America					
RPX Clearinghouse LLC	Scheduling of variable sized packet data under transfer rate control	United States of America	09417769	10/14/1999	6646986	11/11/2003	Granted
RPX Clearinghouse LLC	Method and system for optimizing wireless communication system performance	United States of America	09420295	10/18/1999	6519452	02/11/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for selecting network entities	United States of America	09420424	10/19/1999	6633312	10/14/2003	Granted
RPX Clearinghouse LLC	Method and system for provisioning network resources for dynamic multicast groups	United States of America	09422646	10/22/1999	6556544	04/29/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for processing calls on a multiprocessor communication system	United States of America	09427711	10/27/1999	6542942	04/01/2003	Granted
RPX Clearinghouse LLC	System and method for remote management of call center operations	United States of America	09428656	10/28/1999	6594470	07/15/2003	Granted
RPX Clearinghouse LLC	Reliable distributed shared memory	United States of America	09429712	10/29/1999	6574749	06/03/2003	Granted
RPX Clearinghouse LLC	Methods and systems for providing access to stored audio data over a network	United States of America	09430045	10/29/1999	7376710	05/20/2008	Granted
RPX Clearinghouse LLC	Methods and systems for building and distributing audio packages	United States of America	09431566	10/29/1999	7308462	12/11/2007	Granted
RPX Clearinghouse LLC	Method and apparatus for accessing an ordered array structure	United States of America	09431994	11/02/1999	6438555	08/20/2002	Granted
RPX Clearinghouse LLC	Method and apparatus for generating multilingual transcription groups	United States of America	09432697	11/02/1999	6549883	04/15/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for alert control on a communications system	United States of America	09434954	11/05/1999	6594354	07/15/2003	Granted
RPX Clearinghouse LLC	Storing information about a telephony session	United States of America	09436563	11/09/1999	6778653	08/17/2004	Granted
RPX Clearinghouse LLC	Method and apparatus for use in speaker verification	United States of America	09436991	11/09/1999	6401063	06/04/2002	Granted
RPX Clearinghouse LLC	System and method to effectively suppress idle fax signals	United States of America	09438813	11/10/1999	6628429	09/30/2003	Granted
RPX Clearinghouse LLC	Multimedia communications in a telecommunications network	United States of America	09445917	06/12/1998	7286488	10/23/2007	Granted
RPX Clearinghouse LLC	Flexible, modular, compact fiber optic switch	United States of America	09446540	12/21/1999	6445844	09/03/2002	Granted

Owner	Title	Country	Application No.	Filing Date	Patent No.	Issue Date	Patent Status
RPX Clearinghouse LLC	Code division multiple access cable modem	United States of America	09455090	12/06/1999	6647059	11/11/2003	Granted
RPX Clearinghouse LLC	System, device, and method for distributing link state information in a communication network	United States of America	09455955	12/07/1999	8199646	06/12/2012	Granted
RPX Clearinghouse LLC	System and method to implement a packet switch output buffer	United States of America	09460273	12/13/1999	6650651	11/18/2003	Granted
RPX Clearinghouse LLC	Fast path forwarding of link state advertisements using a minimum spanning tree	United States of America	09460321	12/10/1999	6650626	11/18/2003	Granted
RPX Clearinghouse LLC	Fast path forwarding of link state advertisements using multicast addressing	United States of America	09460341	12/10/1999	6606325	08/12/2003	Granted
RPX Clearinghouse LLC	Communication and presence spanning multiple access networks	United States of America	09460780	12/14/1999	6807423	10/19/2004	Granted
RPX Clearinghouse LLC	Independent contact spanning multiple access networks	United States of America	09461119	12/14/1999	7221658	05/22/2007	Granted
RPX Clearinghouse LLC	Client-server network for managing internet protocol voice packets	United States of America	09466619	12/17/1999	6853713	02/08/2005	Granted
RPX Clearinghouse LLC	Directional receiver coupling arrangement with frequency selectivity and gain control for DSL	United States of America	09466663	12/20/1999	6681012	01/20/2004	Granted
RPX Clearinghouse LLC	Distributed optical switching device	United States of America	09470630	12/22/1999	6396969	05/28/2002	Granted
RPX Clearinghouse LLC	Method and apparatus for hierarchical training of speech models for use in speaker verification	United States of America	09470995	12/23/1999	6499012	12/24/2002	Granted
RPX Clearinghouse LLC	Method and apparatus for providing a more efficient use of the total bandwidth capacity in a synchronous optical network	United States of America	09471141	12/23/1999	6616350	09/09/2003	Granted
RPX Clearinghouse LLC	Optical arrayed waveguide grating devices	United States of America	09471439	12/23/1999	6374013	04/16/2002	Granted
RPX Clearinghouse LLC	Optical comb filter	United States of America	09471443	12/23/1999	6301409	10/09/2001	Granted
RPX Clearinghouse LLC	Wireless telephone system and operation method therefor	United States of America	09472449	12/27/1999	6671510	12/30/2003	Granted
RPX Clearinghouse LLC	System and method for providing unified communication services support	United States of America	09472627	12/27/1999	6625258	09/23/2003	Granted
RPX	Text messaging with	United	09472643	12/27/1999	6542586	04/01/2003	Granted

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Clearinghouse LLC	embedded telephony action keys	States of America					
RPX Clearinghouse LLC	Apparatus and method of requesting retransmission of a message across a network	United States of America	09472668	12/27/1999	6581175	06/17/2003	Granted
RPX Clearinghouse LLC	Call features for automatic call distribution system	United States of America	09472910	12/27/1999	7257217	08/14/2007	Granted
RPX Clearinghouse LLC	System, device, and method for establishing label switched paths across multiple autonomous systems	United States of America	09473103	12/28/1999	7076559	07/11/2006	Granted
RPX Clearinghouse LLC	Serial interface for a broadband communications network	United States of America	09473723	12/28/1999	6618383	09/09/2003	Granted
RPX Clearinghouse LLC	Voice over packet network arrangement and method	United States of America	09473726	12/28/1999	7933279	04/26/2011	Granted
RPX Clearinghouse LLC	System and method for providing high-speed communications using a public terminal	United States of America	09474124	12/29/1999	6577720	06/10/2003	Granted
RPX Clearinghouse LLC	Apparatus and method of implementing multicast security between multicast domains	United States of America	09474203	12/29/1999	7127610	10/24/2006	Granted
RPX Clearinghouse LLC	Apparatus and method of minimizing internal multicast traffic	United States of America	09474477	12/29/1999	6594703	07/15/2003	Granted
RPX Clearinghouse LLC	Optical packet switching	United States of America	09474540	12/29/1999	6626589	09/30/2003	Granted
RPX Clearinghouse LLC	Control for periodic optical filter	United States of America	09474541	12/29/1999	6347006	02/12/2002	Granted
RPX Clearinghouse LLC	Optical switch alignment apparatus and method	United States of America	09474543	12/29/1999	6424757	07/23/2002	Granted
RPX Clearinghouse LLC	Optical switch attenuator	United States of America	09474544	12/29/1999	6625340	09/23/2003	Granted
RPX Clearinghouse LLC	Encryption key exchange protocol	United States of America	09475044	12/30/1999	6795555	09/21/2004	Granted
RPX Clearinghouse LLC	Method of and apparatus for generating a tree data structure supporting longest match lookup	United States of America	09475722	12/30/1999	6490592	12/03/2002	Granted
RPX Clearinghouse LLC	System and method of automatically modifying source code for marshaling, unmarshaling and marking modified data objects	United States of America	09477785	12/31/1999	6658660	12/02/2003	Granted
RPX Clearinghouse	Optical amplifier	United States of	09480509	01/10/2000	6362917	03/26/2002	Granted

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LLC		America					
RPX Clearinghouse LLC	Communication system architecture and operating methodology providing a virtual neighborhood network	United States of America	09502699	02/11/2000	7142503	11/28/2006	Granted
RPX Clearinghouse LLC	Label selection for end-to-end label-switched traffic through a communications network	United States of America	09507080	02/18/2000	6738354	05/18/2004	Granted
RPX Clearinghouse LLC	Switch for optical signals	United States of America	09511065	02/23/2000	6606427	08/12/2003	Granted
RPX Clearinghouse LLC	Encoding addresses in a communication system	United States of America	09511777	02/24/2000	7185097	02/27/2007	Granted
RPX Clearinghouse LLC	Method of deploying a fixed wireless access communications network such that a specified level of link performance is maintained	United States of America	09512910	02/25/2000	7142863	11/28/2006	Granted
SBC Properties, L.P. / RPX Clearinghouse LLC	Method and system for filter based message processing in a unified messaging system	United States of America	09515784	02/29/2000	6438215	08/20/2002	Granted
RPX Clearinghouse LLC	Layer 3 routing in self-healing networks	United States of America	09522096	03/09/2000	6490244	12/03/2002	Granted
RPX Clearinghouse LLC	Automatic remote communication using network telephony	United States of America	09522325	03/09/2000	7890117	02/15/2011	Granted
RPX Clearinghouse LLC	Dynamic allocation of shared network resources between connection-oriented and connectionless traffic	United States of America	09527584	03/17/2000	7296087	11/13/2007	Granted
RPX Clearinghouse LLC	Intermixing data and voice on voice circuits	United States of America	09528232	03/17/2000	6570966	05/27/2003	Granted
RPX Clearinghouse LLC	System, device and method for supporting a label switched path across a non-MPLS compliant segment	United States of America	09528261	03/17/2000	7082140	07/25/2006	Granted
RPX Clearinghouse LLC	High efficiency dual supply power amplifier	United States of America	09537721	03/30/2000	6323733	11/27/2001	Granted
RPX Clearinghouse LLC	Optical amplifier gain control	United States of America	09539124	03/30/2000	6366395	04/02/2002	Granted
RPX Clearinghouse LLC	Optical amplifier pump control	United States of America	09539126	03/30/2000	6501595	12/31/2002	Granted
RPX Clearinghouse LLC	Unicast agent advertisement based on layer 2 and layer 3 motion detection	United States of America	09540362	03/31/2000	7173917	02/06/2007	Granted
RPX	Method, apparatus,	United	09540756	03/31/2000	8028227	09/27/2011	Granted

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Clearinghouse LLC	processor-readable media and signals for acquiring and presenting acquired multimedia content	States of America					
RPX Clearinghouse LLC	Testing operation of a photonic switch	United States of America	09545545	04/07/2000	6574384	06/03/2003	Granted
RPX Clearinghouse LLC	Method of increasing capacity in a fixed wireless access network in which subscribers communicate with base stations via directional antennas	United States of America	09545546	04/07/2000	6628952	09/30/2003	Granted
RPX Clearinghouse LLC	Crosspoint switch protection using additional switching elements to provide alternate paths	United States of America	09545547	04/07/2000	6493479	12/10/2002	Granted
RPX Clearinghouse LLC	Networking device and method for making cyclic redundancy check (CRC) immune to scrambler error duplication	United States of America	09545660	04/10/2000	6609226	08/19/2003	Granted
RPX Clearinghouse LLC	Apparatus for reshaping optical pulses	United States of America	09553135	04/19/2000	6580857	06/17/2003	Granted
RPX Clearinghouse LLC	Performance modeling of a communications system	United States of America	09557451	04/24/2000	7024475	04/04/2006	Granted
RPX Clearinghouse LLC	Method and apparatus for normalizing channel specific speech feature elements	United States of America	09559459	04/28/2000	6502070	12/31/2002	Granted
RPX Clearinghouse LLC	Supervisory control plane over wavelength routed networks	United States of America	09563864	05/04/2000	7190896	03/13/2007	Granted
RPX Clearinghouse LLC	Call admission control	United States of America	09577292	05/23/2000	7260060	08/21/2007	Granted
RPX Clearinghouse LLC	Balanced networks	United States of America	09579501	05/30/2000	6606667	08/12/2003	Granted
RPX Clearinghouse LLC	Optical switch with power equalization	United States of America	09580495	05/30/2000	7542675	06/02/2009	Granted
RPX Clearinghouse LLC	High capacity passive optical network	United States of America	09584330	05/30/2000	7218854	05/15/2007	Granted
RPX Clearinghouse LLC	Method and apparatus for frequency domain data frame transmission	United States of America	09587036	06/02/2000	6598200	07/22/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for call processing in response to a call request from an originating device	United States of America	09589326	06/07/2000	6870848	03/22/2005	Granted
RPX Clearinghouse LLC	Method and apparatus for creating a software	United States of America	09590431	06/08/2000	6594822	07/15/2003	Granted

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LLC	patch by comparing object files	America					
RPX Clearinghouse LLC	Optical switching device	United States of America	09593697	06/15/2000	6366716	04/02/2002	Granted
RPX Clearinghouse LLC	Security framework for an IP mobility system using variable-based security associations and broker redirection	United States of America	09595551	06/16/2000	7174018	02/06/2007	Granted
RPX Clearinghouse LLC	Providing desired service policies to subscribers accessing internet	United States of America	09600054	12/01/1999	6952728	10/04/2005	Granted
RPX Clearinghouse LLC	Tunable optical filters	United States of America	09603080	06/26/2000	6459533	10/01/2002	Granted
RPX Clearinghouse LLC	Urgency of call indication to called party through distinctive notification	United States of America	09609295	06/30/2000	6650746	11/18/2003	Granted
RPX Clearinghouse LLC	ATM transport over multi-protocol label switching	United States of America	09614601	07/12/2000	6791985	09/14/2004	Granted
RPX Clearinghouse LLC	Method and apparatus for providing and facilitating interaction with distributed manager information of a network	United States of America	09615864	07/13/2000	6430614	08/06/2002	Granted
RPX Clearinghouse LLC	Address translation method and system having a forwarding table data structure	United States of America	09616880	07/14/2000	6243720	06/05/2001	Granted
RPX Clearinghouse LLC	System, device, and method for establishing and removing a label switched path in a communication network	United States of America	09618530	07/18/2000	7023846	04/04/2006	Granted
RPX Clearinghouse LLC	Surface wave devices with static electric field	United States of America	09624029	07/24/2000	6380828	04/30/2002	Granted
RPX Clearinghouse LLC	Method, apparatus, computer-readable media and user interface for annunciating problems in a system	United States of America	09624239	07/24/2000	7107496	09/12/2006	Granted
RPX Clearinghouse LLC	Tunable optical filter and optical modulator	United States of America	09625175	07/25/2000	6396632	05/28/2002	Granted
RPX Clearinghouse LLC	Object-oriented network management interface	United States of America	09632294	08/04/2000	7260621	08/21/2007	Granted
RPX Clearinghouse LLC	Multilayer circuit board	United States of America	09636594	08/10/2000	6445591	09/03/2002	Granted
RPX Clearinghouse LLC	Multilayer circuit board	United States of America	09636595	08/10/2000	6487083	11/26/2002	Granted
RPX Clearinghouse	Route selection for alternate paths in	United States of	09636701	08/11/2000	6914912	07/05/2005	Granted

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LLC	connection-oriented networks	America					
RPX Clearinghouse LLC	Optical fiber wavelength reference device	United States of America	09636806	08/10/2000	6546028	04/08/2003	Granted
RPX Clearinghouse LLC	Aggregating filters	United States of America	09638372	08/15/2000	7065042	06/20/2006	Granted
RPX Clearinghouse LLC	Midplane configuration featuring surface contact connectors	United States of America	09639075	08/16/2000	6528737	03/04/2003	Granted
RPX Clearinghouse LLC	System and method for adjustment of color presentation in networked media	United States of America	09640009	08/17/2000	6309117	10/30/2001	Granted
RPX Clearinghouse LLC	Allocating network resources	United States of America	09645186	08/24/2000	7283477	10/16/2007	Granted
RPX Clearinghouse LLC	Generic fault management method and system	United States of America	09648622	08/28/2000	6697970	02/24/2004	Granted
RPX Clearinghouse LLC	Technique for reducing the number of layers in a multilayer circuit board	United States of America	09651188	08/30/2000	6388890	05/14/2002	Granted
RPX Clearinghouse LLC	Chromatic dispersion compensation	United States of America	09653984	09/01/2000	6381388	04/30/2002	Granted
RPX Clearinghouse LLC	System, device, and method for distributing access control information in a communication system	United States of America	09660143	09/13/2000	8966100	02/24/2015	Granted
RPX Clearinghouse LLC	Technique for coupling signals between circuit boards	United States of America	09660196	09/12/2000	6399898	06/04/2002	Granted
RPX Clearinghouse LLC	System for cancelling distortion in an electronic circuit	United States of America	09664373	09/18/2000	6546235	04/08/2003	Granted
RPX Clearinghouse LLC	System, device, and method for bridging network traffic	United States of America	09668219	09/22/2000	7184396	02/27/2007	Granted
RPX Clearinghouse LLC	Apparatus and method for supporting multiple traffic redundancy mechanisms	United States of America	09668220	09/22/2000	7233567	06/19/2007	Granted
RPX Clearinghouse LLC	Broadband amplification with first and second amplifiers having different pump wavelength requirements	United States of America	09671863	09/27/2000	6466363	10/15/2002	Granted
RPX Clearinghouse LLC	Media gateway connection information recovery	United States of America	09672821	09/29/2000	7533174	05/12/2009	Granted
RPX Clearinghouse LLC	Network selection support in a communications service bidding exchange	United States of America	09685279	10/10/2000	6522735	02/18/2003	Granted
RPX Clearinghouse	Call protect with systems handoff	United States of America	09689101	10/12/2000	6590961	07/08/2003	Granted

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LLC	redundancy	America					
RPX Clearinghouse LLC	Method and apparatus for using documents written in a markup language to access and configure network elements	United States of America	09692949	10/20/2000	7313608	12/25/2007	Granted
RPX Clearinghouse LLC	System, apparatus and method for personalising web content	United States of America	09693132	10/20/2000	7249197	07/24/2007	Granted
RPX Clearinghouse LLC	Methods and systems for process rollback in a shared memory parallel processor computing environment	United States of America	09696957	10/27/2000	6751711	06/15/2004	Granted
RPX Clearinghouse LLC	System and method for reporting communication related information in a packet mode communication	United States of America	09697822	10/26/2000	7283521	10/16/2007	Granted
RPX Clearinghouse LLC	Method and apparatus for optical to electrical to optical conversion in an optical cross-connect switch	United States of America	09704439	11/01/2000	6650803	11/18/2003	Granted
RPX Clearinghouse LLC	Optical cross-connect switching system with bridging, test access and redundancy	United States of America	09704444	11/01/2000	6597826	07/22/2003	Granted
RPX Clearinghouse LLC	Optical cross-connect switching system	United States of America	09704457	11/01/2000	6571030	05/27/2003	Granted
RPX Clearinghouse LLC	Method of using a web-browser to pass information from a first web-entity to one of a plurality of second web-entities	United States of America	09707015	11/06/2000	7613824	11/03/2009	Granted
RPX Clearinghouse LLC	Method of data rate exchange for transmissions across a packet-based network	United States of America	09709576	11/13/2000	6888794	05/03/2005	Granted
RPX Clearinghouse LLC	Apparatus and method to provide one-click logon service for wireless devices	United States of America	09711056	11/09/2000	7136631	11/14/2006	Granted
RPX Clearinghouse LLC	Detecting if a secure link is alive	United States of America	09714082	11/16/2000	6976071	12/13/2005	Granted
RPX Clearinghouse LLC	Reconfigurable add-drop multiplexer	United States of America	09722968	11/27/2000	6807371	10/19/2004	Granted
RPX Clearinghouse LLC	Dispersion managed fiber optic cable and system	United States of America	09723018	11/27/2000	6526208	02/25/2003	Granted
RPX Clearinghouse LLC	Communications system, apparatus and method therefor	United States of America	09723019	11/27/2000	7161897	01/09/2007	Granted
RPX Clearinghouse LLC	Testing using test packets containing random data	United States of America	09723836	11/28/2000	6625764	09/23/2003	Granted



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RPX Clearinghouse LLC	Photonic switch status tester	United States of America	09724454	11/28/2000	6519383	02/11/2003	Granted
RPX Clearinghouse LLC	Protection switching arrangement for an optical switching system	United States of America	09726027	11/30/2000	6999677	02/14/2006	Granted
RPX Clearinghouse LLC	System, device, and method for isolating signaling environments in a power line communication system	United States of America	09730505	12/05/2000	6590493	07/08/2003	Granted
RPX Clearinghouse LLC	Chirped Bragg grating reflectors and adjustable dispersion apparatus incorporating such gratings	United States of America	09731399	12/06/2000	6519390	02/11/2003	Granted
RPX Clearinghouse LLC	Reliable hardware support for the use of formal languages in high assurance systems	United States of America	09735035	12/12/2000	6792560	09/14/2004	Granted
RPX Clearinghouse LLC	Distributed redirect server	United States of America	09735501	12/14/2000	6643357	11/04/2003	Granted
RPX Clearinghouse LLC	Connection verification for optical switches	United States of America	09735537	12/14/2000	7120356	10/10/2006	Granted
RPX Clearinghouse LLC	System and method for managing data transmissions from a TFTP server by specifying a maximum bandwidth	United States of America	09736210	12/15/2000	7246171	07/17/2007	Granted
RPX Clearinghouse LLC	Providing media on demand	United States of America	09739066	12/18/2000	7337231	02/26/2008	Granted
RPX Clearinghouse LLC	Modular high capacity network	United States of America	09739277	12/19/2000	7209659	04/24/2007	Granted
RPX Clearinghouse LLC	Planar waveguide dispersion compensator	United States of America	09739528	12/15/2000	6636662	10/21/2003	Granted
RPX Clearinghouse LLC	High performance orthogonal interconnect architecture without midplane	United States of America	09739882	12/20/2000	6462957	10/08/2002	Granted
RPX Clearinghouse LLC	Dormant backup link for OSPF network protection	United States of America	09739902	12/20/2000	7234001	06/19/2007	Granted
RPX Clearinghouse LLC	Electronic circuit board	United States of America	09739977	12/20/2000	6459593	10/01/2002	Granted
RPX Clearinghouse LLC	Voltage biased section of non-linear transmission line	United States of America	09741257	12/19/2000	6538525	03/25/2003	Granted
RPX Clearinghouse LLC	Gain determination for correlation processes	United States of America	09742232	12/22/2000	6621338	09/16/2003	Granted
RPX Clearinghouse LLC	System and method of dynamic online session caching	United States of America	09745812	12/21/2000	6640284	10/28/2003	Granted

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RPX Clearinghouse LLC	Telecommunications system power supply	United States of America	09745887	12/21/2000	6496626	12/17/2002	Granted
RPX Clearinghouse LLC	Dynamic assignment of traffic classes to a priority queue in a packet forwarding device	United States of America	09747296	12/22/2000	8619793	12/31/2013	Granted
RPX Clearinghouse LLC	Device and method for data storage	United States of America	09748757	12/22/2000	7177953	02/13/2007	Granted
RPX Clearinghouse LLC	Technique for facilitating circuitry design	United States of America	09749406	12/28/2000	6591399	07/08/2003	Granted
RPX Clearinghouse LLC	Suspended stripline structures to reduce skin effect and dielectric loss to provide low loss transmission of signals with high data rates or high frequencies	United States of America	09749411	12/28/2000	6603376	08/05/2003	Granted
RPX Clearinghouse LLC	Technology implementation of suspended stripline within multi-layer substrate used to vary time delay and to maximize the reach of signals with high data rates or high frequencies	United States of America	09749435	12/28/2000	6621384	09/16/2003	Granted
RPX Clearinghouse LLC	Inserted components for via connection of signal tracks to achieve continuous impedance matching in multi-layer substrate	United States of America	09749470	12/28/2000	6441319	08/27/2002	Granted
RPX Clearinghouse LLC	System and method for testing TDM sRAMs	United States of America	09749945	12/29/2000	6563751	05/13/2003	Granted
RPX Clearinghouse LLC	Apparatus, method and medium for providing an optical effect	United States of America	09750062	12/29/2000	6481844	11/19/2002	Granted
RPX Clearinghouse LLC	Voice optimization in a network having voice over the internet protocol communication devices	United States of America	09750766	12/28/2000	7787447	08/31/2010	Granted
RPX Clearinghouse LLC	Optical switching device	United States of America	09750871	12/28/2000	6594413	07/15/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for monitoring internet based sales transactions by local vendors	United States of America	09751461	12/29/2000	6868396	03/15/2005	Granted
RPX Clearinghouse LLC	Call trace on a packet switched network	United States of America	09751796	12/29/2000	6937572	08/30/2005	Granted
RPX Clearinghouse LLC	System and method for database	United States of America	09752838	12/28/2000	6581075	06/17/2003	Granted

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LLC	synchronization	America					
RPX Clearinghouse LLC	Voice mail caller identification	United States of America	09753025	12/29/2000	6970906	11/29/2005	Granted
RPX Clearinghouse LLC	Method and apparatus for classifying Java remote method invocation transport traffic	United States of America	09753080	12/29/2000	7237012	06/26/2007	Granted
RPX Clearinghouse LLC	Lawful communication interception— intercepting communication associated information	United States of America	09757904	01/10/2001	7152103	12/19/2006	Granted
RPX Clearinghouse LLC	Protecting optical switches	United States of America	09767098	01/22/2001	6526195	02/25/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for setting up a communication with a target base station in a cellular or cordless mobile telecommunications system	United States of America	09807785	10/19/1999	7089009	08/08/2006	Granted
RPX Clearinghouse LLC	Signal layer interconnects	United States of America	09821722	03/29/2001	7348494	03/25/2008	Granted
RPX Clearinghouse LLC	Photonic bandgap device using coupled defects	United States of America	09827086	04/05/2001	6618535	09/09/2003	Granted
RPX Clearinghouse LLC	Method and apparatus to increase cable connector density in equipment	United States of America	09829978	04/11/2001	6497578	12/24/2002	Granted
RPX Clearinghouse LLC	Active set management in cellular wireless network that supports high data rate forward link transmissions	United States of America	09833837	04/12/2001	6493328	12/10/2002	Granted
RPX Clearinghouse LLC	Chromatic dispersion discriminator	United States of America	09842236	04/26/2001	6586724	07/01/2003	Granted
RPX Clearinghouse LLC	System and method for bridge and roll in a photonic switch	United States of America	09850130	05/08/2001	6643423	11/04/2003	Granted
RPX Clearinghouse LLC	Recipient controlled contact directories	United States of America	09852995	05/10/2001	7162474	01/09/2007	Granted
RPX Clearinghouse LLC	Scalable policy server	United States of America	09859702	05/17/2001	7181532	02/20/2007	Granted
RPX Clearinghouse LLC	Management and control of multi-layer networks	United States of America	09862861	05/22/2001	7269185	09/11/2007	Granted
RPX Clearinghouse LLC	Dimensionally stable device construction	United States of America	09864844	05/24/2001	6490385	12/03/2002	Granted
RPX Clearinghouse LLC	Method and apparatus for securely transmitting encrypted data through a firewall and for monitoring user	United States of America	09865667	05/29/2001	7516485	04/07/2009	Granted

Owner	Title	Country	Application No.	Filing Date	Patent No.	Issue Date	Patent Status
	traffic						
RPX Clearinghouse LLC	Point to multipoint network	United States of America	09867175	05/29/2001	7154879	12/26/2006	Granted
RPX Clearinghouse LLC	Parallel data bus integrated clocking and control	United States of America	09875202	06/07/2001	7061938	06/13/2006	Granted
RPX Clearinghouse LLC	Dispersion compensation apparatus and method utilising sampled Bragg gratings	United States of America	09876316	06/07/2001	6643429	11/04/2003	Granted
RPX Clearinghouse LLC	Control plane failure recovery in a network	United States of America	09891011	06/25/2001	7130926	10/31/2006	Granted
RPX Clearinghouse LLC	Tuning of optical fiber components	United States of America	09893258	06/27/2001	6647030	11/11/2003	Granted
RPX Clearinghouse LLC	Continuation session attribute	United States of America	09898205	07/03/2001	7193980	03/20/2007	Granted
RPX Clearinghouse LLC	Application-aware resource reservation in multiservice networks	United States of America	09906548	07/16/2001	7154851	12/26/2006	Granted
RPX Clearinghouse LLC	Optical network subscriber access architecture	United States of America	09928745	08/14/2001	7171121	01/30/2007	Granted
RPX Clearinghouse LLC	Optical switch router	United States of America	09931643	08/15/2001	7283747	10/16/2007	Granted
RPX Clearinghouse LLC	Optical switching device based on stable, non-absorbing optical hard limiters	United States of America	09933146	08/20/2001	6636337	10/21/2003	Granted
RPX Clearinghouse LLC	System, method and apparatus for data storage using an optical medium	United States of America	09935819	08/23/2001	6566639	05/20/2003	Granted
RPX Clearinghouse LLC	System and method for key management across geographic domains	United States of America	09952328	09/13/2001	7539313	05/26/2009	Granted
RPX Clearinghouse LLC	Rotator communication switch having redundant elements	United States of America	09954192	09/18/2001	7184431	02/27/2007	Granted
RPX Clearinghouse LLC	Switched channel-band network	United States of America	09960959	09/25/2001	7233590	06/19/2007	Granted
RPX Clearinghouse LLC	Multiple quantum well optoelectronic devices	United States of America	09969348	10/02/2001	6573530	06/03/2003	Granted
RPX Clearinghouse LLC	Establishing a communications path via a multi-homed communications network	United States of America	09973656	10/09/2001	7246166	07/17/2007	Granted
RPX Clearinghouse LLC	Method and apparatus for differentiated communications in a wireless network	United States of America	09976643	10/12/2001	7200125	04/03/2007	Granted
RPX	Hybrid	United States of	09987164	11/13/2001	7187865	03/06/2007	Granted

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Clearinghouse LLC	photonic/electronic switching in a multi-channel network	America					
RPX Clearinghouse LLC	Method and apparatus for reducing undesirable reflected light in integrated opto-electronic modules	United States of America	09993271	11/14/2001	6520652	02/18/2003	Granted
RPX Clearinghouse LLC	Optical array amplifier	United States of America	10008082	11/02/2001	6643059	11/04/2003	Granted
RPX Clearinghouse LLC	Method of and apparatus for data transmission	United States of America	10012339	12/12/2001	7181616	02/20/2007	Granted
RPX Clearinghouse LLC	Content request routing method	United States of America	10013677	12/13/2001	8429221	04/23/2013	Granted
RPX Clearinghouse LLC	Distributed routing core	United States of America	10016777	12/10/2001	7240123	07/03/2007	Granted
RPX Clearinghouse LLC	Method and apparatus for through-body optical component attachment using laser soldering	United States of America	10021975	12/13/2001	6627847	09/30/2003	Granted
RPX Clearinghouse LLC	Method and apparatus for monitoring channel frequency response	United States of America	10024020	12/21/2001	7564895	07/21/2009	Granted
RPX Clearinghouse LLC	System and method for network control and provisioning	United States of America	10029148	12/28/2001	7249169	07/24/2007	Granted
RPX Clearinghouse LLC	Routing traffic in a communications network	United States of America	10032411	12/21/2001	7139278	11/21/2006	Granted
RPX Clearinghouse LLC	Personal user agent	United States of America	10036247	12/27/2001	7299286	11/20/2007	Granted
RPX Clearinghouse LLC	Information routing system and apparatus	United States of America	10052128	01/17/2002	6999454	02/14/2006	Granted
RPX Clearinghouse LLC	Data burst scheduling	United States of America	10054362	11/13/2001	7215666	05/08/2007	Granted
RPX Clearinghouse LLC	Time-coordination in a burst-switching network	United States of America	10054509	11/13/2001	7212551	05/01/2007	Granted
RPX Clearinghouse LLC	Rate-controlled optical burst switching	United States of America	10054512	11/13/2001	7187654	03/06/2007	Granted
RPX Clearinghouse LLC	Optical amplifier gain control monitoring	United States of America	10058879	01/28/2002	6646790	11/11/2003	Granted
RPX Clearinghouse LLC	Adaptive state transition control	United States of America	10075436	02/14/2002	7301950	11/27/2007	Granted
RPX Clearinghouse LLC	Technique for synchronizing clocks in a network	United States of America	10076415	02/19/2002	7043651	05/09/2006	Granted
RPX Clearinghouse LLC	Technique for multicasting receiver membership reports	United States of America	10077763	02/20/2002	7149215	12/12/2006	Granted
RPX	Monitoring natural	United States of	10100703	03/19/2002	7227937	06/05/2007	Granted

Owner	Title	Country	Application No.	Filing Date	Patent No.	Issue Date	Patent Status
Clearinghouse LLC	interaction for presence detection	America					
RPX Clearinghouse LLC	Technique for reducing the number of layers in a multilayer circuit board	United States of America	10101211	03/20/2002	7256354	08/14/2007	Granted
RPX Clearinghouse LLC	Intelligent address registration for optical user-network interface	United States of America	10106366	03/27/2002	7173937	02/06/2007	Granted
RPX Clearinghouse LLC	Service broker	United States of America	10106415	03/26/2002	7286545	10/23/2007	Granted
RPX Clearinghouse LLC	Multi-phase adaptive network configuration	United States of America	10107332	03/28/2002	7117257	10/03/2006	Granted
RPX Clearinghouse LLC	Data stream filtering apparatus and method	United States of America	10107876	03/27/2002	7272137	09/18/2007	Granted
RPX Clearinghouse LLC	Time slot scheduling for shared-medium communications networks	United States of America	10109918	03/29/2002	7212540	05/01/2007	Granted
RPX Clearinghouse LLC	Network communication authentication	United States of America	10114100	04/02/2002	7275109	09/25/2007	Granted
RPX Clearinghouse LLC	Content provider secure and tracable portal	United States of America	10115396	04/03/2002	7290286	10/30/2007	Granted
RPX Clearinghouse LLC	Method and apparatus for security management in a networked environment	United States of America	10115561	04/03/2002	7246376	07/17/2007	Granted
RPX Clearinghouse LLC	Presence information based on media activity	United States of America	10119923	04/10/2002	7139797	11/21/2006	Granted
RPX Clearinghouse LLC	Technique for reducing the number of layers in a multilayer circuit board	United States of America	10126700	04/22/2002	6545876	04/08/2003	Granted
RPX Clearinghouse LLC	Technique for providing a control and management protocol for an ethernet layer in an ethernet network	United States of America	10152028	05/22/2002	7212492	05/01/2007	Granted
RPX Clearinghouse LLC	Optical switching and attenuation systems and methods therefor	United States of America	10167378	06/11/2002	6591032	07/08/2003	Granted
RPX Clearinghouse LLC	System and method of cross-clock domain rate matching	United States of America	10172547	06/14/2002	7352836	04/01/2008	Granted
RPX Clearinghouse LLC	Method and apparatus for achieving transparent redundancy at a hierarchical boundary	United States of America	10172930	06/17/2002	7269132	09/11/2007	Granted
RPX Clearinghouse LLC	Technique for implementing an admission control scheme for data flows	United States of America	10172981	06/18/2002	7221656	05/22/2007	Granted
RPX Clearinghouse LLC	Chromatic dispersion discriminator	United States of America	10175065	06/20/2002	6657186	12/02/2003	Granted

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RPX Clearinghouse LLC	Method and apparatus for initiating telephony contact	United States of America	10179656	06/25/2002	7139381	11/21/2006	Granted
RPX Clearinghouse LLC	High capacity optical node	United States of America	10180050	06/27/2002	7236699	06/26/2007	Granted
RPX Clearinghouse LLC	Irregular two-dimensional wide-coverage network	United States of America	10180080	06/27/2002	7200340	04/03/2007	Granted
RPX Clearinghouse LLC	Method and system for filter based message processing in a unified messaging system	United States of America	10183283	06/26/2002	6782079	08/24/2004	Granted
RPX Clearinghouse LLC	Adaptive data rate control for mobile data transfer for high throughput and guaranteed error rate	United States of America	10186787	07/01/2002	7142562	11/28/2006	Granted
RPX Clearinghouse LLC	Virtual private networks	United States of America	10191660	07/09/2002	7152115	12/19/2006	Granted
RPX Clearinghouse LLC	Rerouting in connection-oriented communication networks and communication systems	United States of America	10192498	07/11/2002	7180866	02/20/2007	Granted
RPX Clearinghouse LLC	Failure protection for packet telephony	United States of America	10194114	07/12/2002	7286467	10/23/2007	Granted
RPX Clearinghouse LLC	Call-fail-safe method for wireless traffic distribution across bands	United States of America	10194329	07/12/2002	7289484	10/30/2007	Granted
RPX Clearinghouse LLC	Routing for a communications network	United States of America	10194551	07/12/2002	7286479	10/23/2007	Granted
RPX Clearinghouse LLC	Portable call management system	United States of America	10199797	07/19/2002	7149506	12/12/2006	Granted
RPX Clearinghouse LLC	Selective purging of routing data packets in a network	United States of America	10209043	07/30/2002	7239613	07/03/2007	Granted
RPX Clearinghouse LLC	Bidirectional optical networks	United States of America	10216397	08/12/2002	7043159	05/09/2006	Granted
RPX Clearinghouse LLC	Technique for enabling a plurality of software components to communicate in a software component matrix environment	United States of America	10224417	08/21/2002	8086665	12/27/2011	Granted
RPX Clearinghouse LLC	Payload mapping in synchronous networks	United States of America	10230050	08/28/2002	6704326	03/09/2004	Granted
RPX Clearinghouse LLC	Frame based data transmission over synchronous digital hierarchy network	United States of America	10233183	08/29/2002	6816496	11/09/2004	Granted
RPX Clearinghouse LLC	Internet call waiting with voicemail system that provides monitoring during	United States of America	10240212	03/21/2001	7245612	07/17/2007	Granted

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	recording						
RPX Clearinghouse LLC	Clock recovery using a double-exponential smoothing process	United States of America	10246408	09/19/2002	7020791	03/28/2006	Granted
XROS / RPX Clearinghouse LLC	Link discovery, verification, and failure isolation in an optical communication system	United States of America	10261099	09/30/2002	8971706	03/03/2015	Granted
RPX Clearinghouse LLC	Automated attendant multimedia session	United States of America	10262288	10/01/2002	7920546	04/05/2011	Granted
RPX Clearinghouse LLC	System and method for providing desired service policies to subscribers accessing the internet	United States of America	10264053	10/03/2002	7302493	11/27/2007	Granted
RPX Clearinghouse LLC	Method and system for interfacing systems unified messaging with legacy systems located behind corporate firewalls	United States of America	10264137	10/03/2002	6868144	03/15/2005	Granted
RPX Clearinghouse LLC	Label control method and apparatus for virtual private LAN segment networks	United States of America	10265621	10/08/2002	7260097	08/21/2007	Granted
RPX Clearinghouse LLC	Hierarchical virtual trunking over packet networks	United States of America	10266183	10/07/2002	7944817	05/17/2011	Granted
RPX Clearinghouse LLC	Technique for delivering and enforcing network quality of service to multiple outstations	United States of America	10274083	10/21/2002	7830914	11/09/2010	Granted
RPX Clearinghouse LLC	Method and apparatus for negotiating bearer control parameters using property sets	United States of America	10275392	05/04/2001	7826384	11/02/2010	Granted
RPX Clearinghouse LLC	Modular photonic switch with wavelength conversion	United States of America	10286781	11/04/2002	7088919	08/08/2006	Granted
RPX Clearinghouse LLC	Interworking of multimedia and telephony equipment	United States of America	10325143	12/20/2002	7920690	04/05/2011	Granted
RPX Clearinghouse LLC	Test point monitor using embedded passive resistance	United States of America	10326064	12/23/2002	6753679	06/22/2004	Granted
RPX Clearinghouse LLC	Method and apparatus for processing calls on a multiprocessor communication system	United States of America	10351272	01/24/2003	6865624	03/08/2005	Granted
RPX Clearinghouse LLC	Network data routing protection cycles for automatic protection switching	United States of America	10351780	01/27/2003	7486615	02/03/2009	Granted
RPX Clearinghouse LLC	Optical switch and protocols for use therewith	United States of America	10360680	02/10/2003	8463123	06/11/2013	Granted
RPX Clearinghouse LLC	Technique for transferring information in a passive optical network	United States of America	10364401	02/12/2003	7272315	09/18/2007	Granted
RPX	System and method for	United	10375549	02/27/2003	7260841	08/21/2007	Granted



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Clearinghouse LLC	maintaining access to content in an encrypted network environment	States of America					
RPX Clearinghouse LLC	Proxy SIP server interface for session initiation communications	United States of America	10385352	03/10/2003	7136635	11/14/2006	Granted
RPX Clearinghouse LLC	Method for using a knowledge digest to verify configuration information in a network	United States of America	10385942	03/11/2003	7839891	11/23/2010	Granted
RPX Clearinghouse LLC	Apparatus for using a verification probe in an LDP MPLS network	United States of America	10385965	03/11/2003	7359328	04/15/2008	Granted
RPX Clearinghouse LLC	Verification of configuration information in BGP VPNs	United States of America	10385966	03/11/2003	7668949	02/23/2010	Granted
RPX Clearinghouse LLC	Availability measurement in networks	United States of America	10385995	03/11/2003	7620712	11/17/2009	Granted
RPX Clearinghouse LLC	Transient tolerant verification of communications paths between devices	United States of America	10385996	03/11/2003	7610360	10/27/2009	Granted
RPX Clearinghouse LLC	Method for using a verification probe in an LDP MPLS network	United States of America	10386091	03/11/2003	7283563	10/16/2007	Granted
RPX Clearinghouse LLC	Verification of communications paths between devices	United States of America	10386092	03/11/2003	7453886	11/18/2008	Granted
RPX Clearinghouse LLC	Apparatus using a knowledge digest to verify configuration information in a network	United States of America	10386093	03/11/2003	7359404	04/15/2008	Granted
RPX Clearinghouse LLC	Telecommunications network administration graphical user interface	United States of America	10391809	03/20/2003	7917854	03/29/2011	Granted
RPX Clearinghouse LLC	Self-configuring distributed switch	United States of America	10409197	04/09/2003	7209454	04/24/2007	Granted
RPX Clearinghouse LLC	Integrating telephone lines with packet connections	United States of America	10410949	04/10/2003	9042371	05/26/2015	Granted
RPX Clearinghouse LLC	System and method for providing service control to a single telephone end terminal from multiple service providers	United States of America	10411162	04/10/2003	7369539	05/06/2008	Granted
RPX Clearinghouse LLC	Method and apparatus for laser line-width compensation	United States of America	10411332	04/11/2003	7200339	04/03/2007	Granted
RPX Clearinghouse LLC	Policy based mobile IP	United States of America	10417437	04/16/2003	7230951	06/12/2007	Granted
RPX Clearinghouse LLC	Optical waveguide	United States of America	10425807	04/29/2003	7136558	11/14/2006	Granted
RPX Clearinghouse LLC	SVC signaling system and method	United States of America	10435316	05/09/2003	7295566	11/13/2007	Granted

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LLC		America					
Merck Patent Gmbh / RPX Clearinghouse LLC	Multi-hop wireless communications system having relay equipments which select signals to forward	United States of America	10456249	06/06/2003	7184703	02/27/2007	Granted
RPX Clearinghouse LLC	Differential forwarding in address-based carrier networks	United States of America	10593108	04/06/2005	8923292	12/30/2014	Granted
RPX Clearinghouse LLC	Emergency services for packet networks	United States of America	10606687	06/26/2003	7899174	03/01/2011	Granted
RPX Clearinghouse LLC	Apparatus, method, and computer program for managing resources in a communication system	United States of America	10610373	06/30/2003	7281051	10/09/2007	Granted
RPX Clearinghouse LLC	Apparatus, method, and computer program for supporting video conferencing in a communication system	United States of America	10610509	06/30/2003	6963352	11/08/2005	Granted
RPX Clearinghouse LLC	Geographic redundancy for call servers in a cellular system based on a bearer-independent core network	United States of America	10615260	07/08/2003	7532568	05/12/2009	Granted
RPX Clearinghouse LLC	Multi-hop intelligent relaying method and apparatus for use in a frequency division duplexing based wireless access network	United States of America	10617956	07/14/2003	7218891	05/15/2007	Granted
RPX Clearinghouse LLC	Recursive identification of individuals for casual collaborative conferencing	United States of America	10625493	07/23/2003	7627102	12/01/2009	Granted
RPX Clearinghouse LLC	Management of queues in contact centres	United States of America	10645438	08/21/2003	8010607	08/30/2011	Granted
RPX Clearinghouse LLC	Multi-staged services policing	United States of America	10645489	08/22/2003	7965717	06/21/2011	Granted
RPX Clearinghouse LLC	Monitoring for operator services	United States of America	10648000	08/26/2003	7313232	12/25/2007	Granted
RPX Clearinghouse LLC	Method for tuning an embedded capacitor in a multilayer circuit board	United States of America	10653289	09/03/2003	7220287	05/22/2007	Granted
RPX Clearinghouse LLC	SVC-L2 VPNs: flexible on demand switched MPLS/IP layer-2 VPNs for ethernet SVC, ATM and frame relay	United States of America	10658701	09/09/2003	9054896	06/09/2015	Granted
RPX Clearinghouse LLC	Bimodal burst switching	United States of America	10682625	10/09/2003	7289440	10/30/2007	Granted

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RPX Clearinghouse LLC	Compensation of temperature-induced dispersion drift in optical communication links	United States of America	10690659	10/23/2003	7274879	09/25/2007	Granted
RPX Clearinghouse LLC	Tandem free operation over packet networks	United States of America	10692233	10/23/2003	7876745	01/25/2011	Granted
RPX Clearinghouse LLC	Call transfer for an integrated wireline and wireless service using a temporary directory number	United States of America	10693539	10/24/2003	7844270	11/30/2010	Granted
RPX Clearinghouse LLC	Method and apparatus for ascertaining the capacity of a network switch	United States of America	10701767	11/05/2003	7174002	02/06/2007	Granted
RPX Clearinghouse LLC	Presence reporting using wireless messaging	United States of America	10723808	11/26/2003	9118574	08/25/2015	Granted
RPX Clearinghouse LLC	Call transfer for an integrated packet and wireless service using a temporary directory number	United States of America	10723831	11/26/2003	7302258	11/27/2007	Granted
RPX Clearinghouse LLC	Technique for monitoring source addresses through statistical clustering of packets	United States of America	10739299	12/19/2003	7917649	03/29/2011	Granted
RPX Clearinghouse LLC	Hitless manual cryptographic key refresh in secure packet networks	United States of America	10740416	12/22/2003	7581093	08/25/2009	Granted
RPX Clearinghouse LLC	Zoning for distance pricing and network engineering in connectionless and connection-oriented networks	United States of America	10741988	12/19/2003	8019841	09/13/2011	Granted
RPX Clearinghouse LLC	Queue state mirroring	United States of America	10742039	12/19/2003	7814222	10/12/2010	Granted
RPX Clearinghouse LLC	Connectivity assessment for label distribution protocol (LDP) networks	United States of America	10745061	12/22/2003	7680923	03/16/2010	Granted
RPX Clearinghouse LLC	Convergence of circuit-switched voice and packet-based media services	United States of America	10746419	12/24/2003	7894581	02/22/2011	Granted
RPX Clearinghouse LLC	Convergence of circuit-switched voice and packet-based media services	United States of America	10746432	12/24/2003	7899164	03/01/2011	Granted
RPX Clearinghouse LLC	Photonic line sharing for high-speed routers	United States of America	10750531	12/31/2003	9021130	04/28/2015	Granted
RPX Clearinghouse LLC	Directional receiver coupling arrangement with frequency selectivity and gain control for DSL	United States of America	10751635	01/06/2004	7123897	10/17/2006	Granted

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RPX Clearinghouse LLC	Autodiscovery for virtual networks	United States of America	10753296	01/08/2004	8024437	09/20/2011	Granted
RPX Clearinghouse LLC	Architecture for dynamic connectivity in an edge photonic network architecture	United States of America	10755573	01/12/2004	7245829	07/17/2007	Granted
RPX Clearinghouse LLC	Automatic protection switching using link-level redundancy supporting multi-protocol label switching	United States of America	10771201	02/03/2004	6987727	01/17/2006	Granted
RPX Clearinghouse LLC	Call transfer for an integrated wireline and wireless service	United States of America	10784743	02/23/2004	9078174	07/07/2015	Granted
RPX Clearinghouse LLC	Technique for maintaining secure network connections	United States of America	10791414	03/03/2004	8186026	05/29/2012	Granted
RPX Clearinghouse LLC	Method and apparatus for facilitating fulfillment of web-service requests on a communication network	United States of America	10794675	03/05/2004	8484348	07/09/2013	Granted
RPX Clearinghouse LLC	Method and apparatus for testing an optical component	United States of America	10797071	03/11/2004	7286755	10/23/2007	Granted
RPX Clearinghouse LLC	Technique for admission control of packet flows	United States of America	10799703	03/15/2004	8036120	10/11/2011	Granted
RPX Clearinghouse LLC	Speech recognition in automated information services systems	United States of America	10805975	03/22/2004	8954325	02/10/2015	Granted
RPX Clearinghouse LLC	Label selection for end-to-end label-switched traffic through a communications network	United States of America	10806083	03/22/2004	7319672	01/15/2008	Granted
RPX Clearinghouse LLC	Method and apparatus for assigning and allocating network resources to layer 1 virtual private networks	United States of America	10810244	03/26/2004	7680934	03/16/2010	Granted
RPX Clearinghouse LLC	Method for public access to private phone numbers and other telephonic peripherals using a caller access code	United States of America	10823554	04/14/2004	7280535	10/09/2007	Granted
RPX Clearinghouse LLC	Adaptive dialing	United States of America	10824226	04/14/2004	7447165	11/04/2008	Granted
RPX Clearinghouse LLC	Method and apparatus for indicating congestion in a source routed network	United States of America	10827181	04/19/2004	8081566	12/20/2011	Granted
RPX Clearinghouse LLC	Method and apparatus for accelerating failover of VPN traffic in an MPLS provider network	United States of America	10851032	05/21/2004	8107363	01/31/2012	Granted

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RPX Clearinghouse LLC	Methods and systems for processing calls in a packet network using peer call servers	United States of America	10852890	05/25/2004	7801157	09/21/2010	Granted
RPX Clearinghouse LLC	Remote control of CPE-based service logic	United States of America	10856163	05/28/2004	7933396	04/26/2011	Granted
RPX Clearinghouse LLC	Method and apparatus for interfacing a customer with a call center	United States of America	10858979	06/02/2004	8045697	10/25/2011	Granted
RPX Clearinghouse LLC	Technique for improving power and ground flooding	United States of America	10861387	06/07/2004	7259336	08/21/2007	Granted
RPX Clearinghouse LLC	Ethernet differentiated services architecture	United States of America	10868607	06/15/2004	7843925	11/30/2010	Granted
RPX Clearinghouse LLC	Communication with a remote device	United States of America	10872582	06/21/2004	7912072	03/22/2011	Granted
RPX Clearinghouse LLC	Ethernet OAM performance management	United States of America	10881296	06/30/2004	7924725	04/12/2011	Granted
SBC Properties, L.P. / RPX Clearinghouse LLC	Method and system for interfacing systems unified messaging with legacy systems located behind corporate firewalls	United States of America	10881355	06/30/2004	7162014	01/09/2007	Granted
RPX Clearinghouse LLC	Flow admission control in an IP network	United States of America	10883207	07/01/2004	7684322	03/23/2010	Granted
RPX Clearinghouse LLC	Dynamic call processing control	United States of America	10895557	07/21/2004	7313228	12/25/2007	Granted
RPX Clearinghouse LLC	Method and apparatus for efficient communication of management data in a telecommunications network	United States of America	10901081	07/29/2004	7925727	04/12/2011	Granted
RPX Clearinghouse LLC	Session based resource allocation in a core or edge networking device	United States of America	10902634	07/29/2004	7929443	04/19/2011	Granted
RPX Clearinghouse LLC	Network management across a NAT or firewall	United States of America	10911378	08/04/2004	8949391	02/03/2015	Granted
RPX Clearinghouse LLC	Method and apparatus for managing interfaces on a network element	United States of America	10922709	08/20/2004	9075753	07/07/2015	Granted
RPX Clearinghouse LLC	Apparatus for redirecting optical signals in free space	United States of America	10925943	08/26/2004	7245798	07/17/2007	Granted
RPX Clearinghouse LLC	System and method for controlling deflection of optical beams	United States of America	10926294	08/26/2004	7197213	03/27/2007	Granted
RPX Clearinghouse LLC	Method and system for transmitting signaling information over a data transport network	United States of America	10929461	08/31/2004	7936881	05/03/2011	Granted
RPX	Method and apparatus	United	10932373	08/09/2004	7313592	12/25/2007	Granted

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Clearinghouse LLC	for providing user specific web-based help in a distributed system environment	States of America					
RPX Clearinghouse LLC	Method and apparatus for open management of multi-media services	United States of America	10944565	09/17/2004	8862570	10/14/2014	Granted
RPX Clearinghouse LLC	Temporal-spatial burst switching	United States of America	10952619	09/29/2004	8064341	11/22/2011	Granted
RPX Clearinghouse LLC	Preventing illicit communications	United States of America	10954049	09/29/2004	8477605	07/02/2013	Granted
RPX Clearinghouse LLC	System, device, and method for address reporting in a distributed communication environment	United States of America	10963779	10/12/2004	7203176	04/10/2007	Granted
RPX Clearinghouse LLC	Multi-hop wireless communications system and method	United States of America	10968518	10/19/2004	8908609	12/09/2014	Granted
RPX Clearinghouse LLC	Remote telephony service management	United States of America	10970975	10/22/2004	9049289	06/02/2015	Granted
RPX Clearinghouse LLC	Technique for routing and controlling emergency calls	United States of America	10978385	11/02/2004	7154995	12/26/2006	Granted
RPX Clearinghouse LLC	Method and apparatus to process a call request by establishing calls among devices	United States of America	10980095	11/03/2004	8355393	01/15/2013	Granted
RPX Clearinghouse LLC	Enhanced caller identification using caller readable devices	United States of America	10994542	11/22/2004	7756259	07/13/2010	Granted
RPX Clearinghouse LLC	Media capability selection	United States of America	11018359	12/21/2004	9094256	07/28/2015	Granted
RPX Clearinghouse LLC	Method of displaying nodes and links	United States of America	11024910	12/30/2004	7855978	12/21/2010	Granted
RPX Clearinghouse LLC	Apparatus and method for packet-based media communications	United States of America	11113050	04/25/2005	7983200	07/19/2011	Granted
RPX Clearinghouse LLC	Connectivity fault notification	United States of America	11137015	05/25/2005	8862943	10/14/2014	Granted
RPX Clearinghouse LLC	Elastic traffic marking for multi-priority packet streams in a communications network	United States of America	11142125	06/01/2005	7586848	09/08/2009	Granted
RPX Clearinghouse LLC	Fast optical switch	United States of America	11152926	06/15/2005	7171072	01/30/2007	Granted
RPX Clearinghouse LLC	Backbone provider bridging networks	United States of America	11159065	06/22/2005	8855122	10/07/2014	Granted
RPX Clearinghouse LLC	VLAN support of differentiated services	United States of America	11169718	06/30/2005	8422500	04/16/2013	Granted
RPX Clearinghouse LLC	Circulating switch	United States of America	11185542	07/21/2005	7856010	12/21/2010	Granted

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Clearinghouse LLC		America					
RPX Clearinghouse LLC	Automatic protection switching using link-level redundancy supporting multi-protocol label switching	United States of America	11188989	07/25/2005	8134917	03/13/2012	Granted
RPX Clearinghouse LLC	Secure network using orthogonal frequency division multiplexing spread spectrum communications	United States of America	11236230	09/27/2005	7813409	10/12/2010	Granted
RPX Clearinghouse LLC	Method and apparatus for specifying IP termination in a network element	United States of America	11241612	09/30/2005	7869442	01/11/2011	Granted
RPX Clearinghouse LLC	Multilink trunking for encapsulated traffic	United States of America	11264634	11/01/2005	7697528	04/13/2010	Granted
RPX Clearinghouse LLC	Interfacing between a command line interface-based application program and a remote network device	United States of America	11265759	11/02/2005	7707269	04/27/2010	Granted
RPX Clearinghouse LLC	Using interactive communication session cookies in web sessions	United States of America	11268845	11/08/2005	8756326	06/17/2014	Granted
RPX Clearinghouse LLC	Enabling improved protection of consumer information in electronic transactions	United States of America	11269358	11/08/2005	8417633	04/09/2013	Granted
RPX Clearinghouse LLC	Method for defending against denial-of-service attack on the IPV6 neighbor cache	United States of America	11280428	11/17/2005	8161549	04/17/2012	Granted
RPX Clearinghouse LLC	Secure, differentiated reading of sensors and RFID tags	United States of America	11287131	11/23/2005	8036956	10/11/2011	Granted
RPX Clearinghouse LLC	Protection switching arrangement for an optical switching system	United States of America	11287259	11/28/2005	7212739	05/01/2007	Granted
RPX Clearinghouse LLC	Cross-connect using ethernet multiplexors for a simple metro ethernet network	United States of America	11287583	11/23/2005	7876749	01/25/2011	Granted
RPX Clearinghouse LLC	RF combining device and method	United States of America	11291300	12/01/2005	7292121	11/06/2007	Granted
RPX Clearinghouse LLC	Method and apparatus for assigning and allocating network resources to packet-based virtual private networks	United States of America	11295921	12/07/2005	7787494	08/31/2010	Granted
RPX Clearinghouse LLC	Method and apparatus for increasing the scalability of Ethernet OAM	United States of America	11297822	12/08/2005	7936680	05/03/2011	Granted
RPX	Methods and systems	United	11298673	12/12/2005	7747019	06/29/2010	Granted

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Clearinghouse LLC	for communicating over a quantum channel	States of America					
RPX Clearinghouse LLC	Telephony and data network services at a telephone	United States of America	11300997	12/15/2005	7660295	02/09/2010	Granted
RPX Clearinghouse LLC	System, device, and method for supporting virtual private networks in a label switched communication network	United States of America	11301162	12/12/2005	7174388	02/06/2007	Granted
RPX Clearinghouse LLC	Multi-mode endpoint in a communication network system and methods thereof	United States of America	11301746	12/13/2005	7986684	07/26/2011	Granted
RPX Clearinghouse LLC	Method and system for enhancing collaboration	United States of America	11303989	12/19/2005	8929528	01/06/2015	Granted
RPX Clearinghouse LLC	Compact floating point delta encoding for complex data	United States of America	11303990	12/19/2005	8972359	03/03/2015	Granted
RPX Clearinghouse LLC	Method and apparatus for providing availability metrics for measurement and management of ethernet services	United States of America	11304019	12/15/2005	8045475	10/25/2011	Granted
RPX Clearinghouse LLC	System and method for validation and enforcement of application security	United States of America	11304043	12/15/2005	8818897	08/26/2014	Granted
RPX Clearinghouse LLC	Method and architecture for a scalable application and security switch using multi-level load balancing	United States of America	11305555	12/16/2005	7672236	03/02/2010	Granted
RPX Clearinghouse LLC	Method and apparatus for detecting unsolicited multimedia communications	United States of America	11305951	12/19/2005	8121839	02/21/2012	Granted
RPX Clearinghouse LLC	Initiating outgoing calls to a VoP terminal from a POTS-based telephone terminal	United States of America	11312613	12/20/2005	8964725	02/24/2015	Granted
RPX Clearinghouse LLC	Method and system for originating connectivity fault management (CFM) frames on non-CFM aware switches	United States of America	11313637	12/21/2005	8085670	12/27/2011	Granted
RPX Clearinghouse LLC	Method and apparatus for detecting a fault on an optical fiber	United States of America	11314678	12/21/2005	8699354	04/15/2014	Granted
RPX Clearinghouse LLC	Key negotiation and management for third party access to a secure communication session	United States of America	11325818	01/05/2006	7975140	07/05/2011	Granted
RPX Clearinghouse LLC	Virtual routers for GMPLS networks	United States of America	11338118	01/23/2006	7995569	08/09/2011	Granted



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RPX Clearinghouse LLC	Planning routes and allocating identifiers to routes in a managed frame-forwarding network	United States of America	11343996	01/31/2006	7756035	07/13/2010	Granted
RPX Clearinghouse LLC	Method and apparatus for controlling calling-party identification	United States of America	11379595	04/21/2006	7995727	08/09/2011	Granted
RPX Clearinghouse LLC	Generating a comfort indicator at an originating terminal	United States of America	11388379	03/24/2006	8902879	12/02/2014	Granted
RPX Clearinghouse LLC	Method and system for phase and byte alignment on a multiplexed high speed bus	United States of America	11391537	03/28/2006	7742507	06/22/2010	Granted
RPX Clearinghouse LLC	Session initiation protocol enabled set-top device	United States of America	11394693	03/31/2006	8069252	11/29/2011	Granted
RPX Clearinghouse LLC	System and method for notifying participants of topics in an ongoing meeting or conference	United States of America	11395601	03/31/2006	8849907	09/30/2014	Granted
RPX Clearinghouse LLC	Method, system and apparatus for identifying an emergency service location of an internet protocol telephony client	United States of America	11395834	03/31/2006	7826598	11/02/2010	Granted
RPX Clearinghouse LLC	Expedited resource negotiation in SIP	United States of America	11432624	05/12/2006	8059656	11/15/2011	Granted
RPX Clearinghouse LLC	Time-value curves to provide dynamic QoS for time sensitive file transfer	United States of America	11469404	08/31/2006	8146090	03/27/2012	Granted
RPX Clearinghouse LLC	Workflow locked loops to enable adaptive networks to change a policy statement responsive to mission level exceptions and reconfigure the software-controllable network responsive to network level exceptions	United States of America	11469422	08/31/2006	9129253	09/08/2015	Granted
RPX Clearinghouse LLC	Double phase encoding quantum key distribution	United States of America	11481826	07/07/2006	7787628	08/31/2010	Granted
RPX Clearinghouse LLC	Any-point-to-any-point (AP2AP) quantum key distribution protocol for optical ring network	United States of America	11481906	07/07/2006	7760883	07/20/2010	Granted
RPX Clearinghouse LLC	Method and device for determining location-enhanced presence information for entities subscribed to a communications system	United States of America	11502509	08/11/2006	8521186	08/27/2013	Granted

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RPX Clearinghouse LLC	System and method for responding to failure of a hardware locus at a communication installation	United States of America	11523195	09/18/2006	8074111	12/06/2011	Granted
RPX Clearinghouse LLC	Method and system for policy-based address allocation for secure unique local networks	United States of America	11524215	09/20/2006	7764677	07/27/2010	Granted
RPX Clearinghouse LLC	Method and apparatus for enabling commuter groups	United States of America	11525615	09/22/2006	7974771	07/05/2011	Granted
RPX Clearinghouse LLC	System and method for transparent single sign-on	United States of America	11526789	09/25/2006	8327427	12/04/2012	Granted
RPX Clearinghouse LLC	Closed captioning language translation	United States of America	11531562	09/13/2006	8045054	10/25/2011	Granted
RPX Clearinghouse LLC	Multi-rate transparent MUX for optical communications networks	United States of America	11533932	09/21/2006	7809017	10/05/2010	Granted
RPX Clearinghouse LLC	High-speed digital signal processing in a coherent optical receiver	United States of America	11533940	09/21/2006	7769305	08/03/2010	Granted
RPX Clearinghouse LLC	Web services interface	United States of America	11536139	09/28/2006	8782248	07/15/2014	Granted
RPX Clearinghouse LLC	Communication methods and apparatus for online games	United States of America	11537040	09/29/2006	8696455	04/15/2014	Granted
RPX Clearinghouse LLC	Method and apparatus for transporting ethernet services	United States of America	11540023	09/30/2006	7746892	06/29/2010	Granted
RPX Clearinghouse LLC	Method of providing secure groups using a combination of group and pair-wise keying	United States of America	11552230	10/24/2006	7900250	03/01/2011	Granted
RPX Clearinghouse LLC	Source selection for conference bridges	United States of America	11553750	10/27/2006	7957512	06/07/2011	Granted
RPX Clearinghouse LLC	Peer to peer contact center	United States of America	11563284	11/27/2006	8929533	01/06/2015	Granted
RPX Clearinghouse LLC	GMPLS control of ethernet	United States of America	11580796	10/13/2006	7710901	05/04/2010	Granted
RPX Clearinghouse LLC	System and method for delivering packet data over a multiplicity of communication links	United States of America	11600492	11/16/2006	8976670	03/10/2015	Granted
RPX Clearinghouse LLC	Techniques for implementing logical trunk groups with session initiation protocol (SIP)	United States of America	11608061	12/07/2006	7995561	08/09/2011	Granted
RPX Clearinghouse LLC	Serving gateway proxies for non-SIP speakers in a next generation network	United States of America	11610788	12/14/2006	9008081	04/14/2015	Granted
RPX Clearinghouse LLC	System and method for providing power	United States of America	11613313	12/20/2006	8073554	12/06/2011	Granted

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LLC	management in a sensor network	America					
RPX Clearinghouse LLC	Automatic configuration of telecommunication station sets	United States of America	11613493	12/20/2006	9042905	05/26/2015	Granted
RPX Clearinghouse LLC	Call server selection	United States of America	11615294	12/22/2006	8792625	07/29/2014	Granted
RPX Clearinghouse LLC	Personalized conference bridge	United States of America	11615387	12/22/2006	8164615	04/24/2012	Granted
RPX Clearinghouse LLC	Interactive content for click-to-call calls	United States of America	11615435	12/22/2006	8081744	12/20/2011	Granted
RPX Clearinghouse LLC	Metadata extraction and re-insertion and improved transcoding in digital media systems	United States of America	11693916	03/30/2007	7913277	03/22/2011	Granted
RPX Clearinghouse LLC	Multicast implementation in a link state protocol controlled ethernet network	United States of America	11702263	02/05/2007	8059647	11/15/2011	Granted
RPX Clearinghouse LLC	Modular high-capacity switch	United States of America	11743805	05/03/2007	7843905	11/30/2010	Granted
RPX Clearinghouse LLC	Associative search engine	United States of America	11767563	06/25/2007	7895183	02/22/2011	Granted
RPX Clearinghouse LLC	Associative search engine	United States of America	11767584	06/25/2007	7895178	02/22/2011	Granted
RPX Clearinghouse LLC	Associative search engine	United States of America	11767632	06/25/2007	7933883	04/26/2011	Granted
Ameritech Corporation / Northern Telecom Limited / RPX Clearinghouse LLC	Method and system for providing enhanced caller identification	United States of America	11789658	04/25/2007	8139732	03/20/2012	Granted
RPX Clearinghouse LLC	Dynamic establishment of virtual circuits using multi-segment pseudowires	United States of America	11814290	11/14/2005	8045492	10/25/2011	Granted
RPX Clearinghouse LLC	Call features for automatic call distribution system	United States of America	11827142	07/10/2007	7885400	02/08/2011	Granted
RPX Clearinghouse LLC	System and method for detecting malicious mail from spam zombies	United States of America	11850340	09/05/2007	9083556	07/14/2015	Granted
RPX Clearinghouse LLC	Method and system for looping back traffic in QIQ ethernet rings and 1:1 protected PBT trunks	United States of America	11955888	12/13/2007	8085676	12/27/2011	Granted
RPX Clearinghouse LLC	Integrated web portal for facilitating communications with	United States of America	11960286	12/19/2007	8756283	06/17/2014	Granted

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	an intended party						
RPX Clearinghouse LLC	Evolution of ethernet networks	United States of America	11962476	12/21/2007	8005081	08/23/2011	Granted
RPX Clearinghouse LLC	Tie-breaking in shortest path determination	United States of America	11964478	12/26/2007	7911944	03/22/2011	Granted
RPX Clearinghouse LLC	Method and apparatus for designing, updating and operating a network based on quality of experience	United States of America	11978314	10/29/2007	8280994	10/02/2012	Granted
RPX Clearinghouse LLC	Forwarding plane data communications channel for ethernet transport networks	United States of America	11996561	09/12/2006	7821949	10/26/2010	Granted
RPX Clearinghouse LLC	Segmented network identity management	United States of America	11996735	07/28/2006	9009778	04/14/2015	Granted
RPX Clearinghouse LLC	Circuit board with signal layers of different dimensions to communicate signals of different frequencies	United States of America	12002361	12/17/2007	9036364	05/19/2015	Granted
RPX Clearinghouse LLC	Low noise oscillator and method	United States of America	12006285	12/31/2007	7911283	03/22/2011	Granted
RPX Clearinghouse LLC	Method and apparatus for managing the interconnection between network domains	United States of America	12006291	12/31/2007	8854982	10/07/2014	Granted
RPX Clearinghouse LLC	Border gateway protocol extended community attribute for layer-2 and layer-3 virtual private networks using 802.1ah-based tunnels	United States of America	12015685	01/17/2008	8027347	09/27/2011	Granted
RPX Clearinghouse LLC	Method and system for telecommunication apparatus fast fault notification	United States of America	12041057	03/03/2008	7953016	05/31/2011	Granted
RPX Clearinghouse LLC	Regulating data-burst transfer	United States of America	12051317	03/19/2008	7817543	10/19/2010	Granted
RPX Clearinghouse LLC	Method for establishing multi segment pseudowire across domains having different pseudowire signaling protocol	United States of America	12064477	08/25/2006	9124486	09/01/2015	Granted
RPX Clearinghouse LLC	Label switched path OAM wrapper	United States of America	12110677	04/28/2008	8024457	09/20/2011	Granted
RPX Clearinghouse LLC	Method and system for weight and rate scheduling	United States of America	12118410	05/09/2008	7969884	06/28/2011	Granted
RPX Clearinghouse LLC	Virtual burst-switching networks	United States of America	12135526	06/09/2008	7889723	02/15/2011	Granted
RPX Clearinghouse LLC	IP forwarding across a link state protocol	United States of America	12151684	05/08/2008	9432213	08/30/2016	Granted

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LLC	controlled ethernet network	America					
RPX Clearinghouse LLC	Method and apparatus for discovering, negotiating, and provisioning end-to-end SLAs between multiple service provider domains	United States of America	12152085	05/12/2008	7924715	04/12/2011	Granted
RPX Clearinghouse LLC	Multi-touch touchscreen incorporating pen tracking	United States of America	12168678	07/07/2008	9268413	02/23/2016	Granted
RPX Clearinghouse LLC	Multi-touch touchscreen incorporating pen tracking	United States of America	12168688	07/07/2008	8842076	09/23/2014	Granted
RPX Clearinghouse LLC	Differential forwarding in address-based carrier networks	United States of America	12196909	08/22/2008	8194668	06/05/2012	Granted
RPX Clearinghouse LLC	Bit-stream huffman coding for data compression	United States of America	12204788	09/04/2008	7737870	06/15/2010	Granted
RPX Clearinghouse LLC	Implementation of VPNs over a link state protocol controlled ethernet network	United States of America	12215350	06/26/2008	7894450	02/22/2011	Granted
RPX Clearinghouse LLC	Switch method for switching class amplifiers	United States of America	12218147	07/11/2008	7872529	01/18/2011	Granted
RPX Clearinghouse LLC	Extended private LAN	United States of America	12241312	09/30/2008	8045570	10/25/2011	Granted
RPX Clearinghouse LLC	IP network and performance monitoring using ethernet OAM	United States of America	12249941	10/12/2008	7898965	03/01/2011	Granted
RPX Clearinghouse LLC	Automatic MEP provisioning in a link state controlled Ethernet network	United States of America	12249944	10/12/2008	7996559	08/09/2011	Granted
RPX Clearinghouse LLC	Method and system for weighted fair queuing	United States of America	12250681	10/14/2008	7995597	08/09/2011	Granted
RPX Clearinghouse LLC	Provisioned provider link state bridging (PLSB) with routed back-up	United States of America	12259560	10/28/2008	9100269	08/04/2015	Granted
RPX Clearinghouse LLC	Provider link state bridging (PLSB) computation method	United States of America	12259650	10/28/2008	8005016	08/23/2011	Granted
RPX Clearinghouse LLC	Break before make forwarding information base (FIB) population for multicast	United States of America	12260558	10/29/2008	7924836	04/12/2011	Granted
RPX Clearinghouse LLC	Age biased distributed collision resolution without clocks	United States of America	12276623	11/24/2008	7941531	05/10/2011	Granted
RPX Clearinghouse LLC	Multi-protocol support over Ethernet packet-switched networks	United States of America	12278294	02/23/2007	8331243	12/11/2012	Granted
RPX	Network data routing	United	12341603	12/22/2008	7760623	07/20/2010	Granted

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Clearinghouse LLC	protection cycles for automatic protection switching	States of America					
RPX Clearinghouse LLC	Selective database replication	United States of America	12341845	12/22/2008	9239767	01/19/2016	Granted
RPX Clearinghouse LLC	Collaboration agent	United States of America	12344914	12/29/2008	8060563	11/15/2011	Granted
RPX Clearinghouse LLC	Bandwidth efficient method and system for obscuring the existence of encryption in a communications channel	United States of America	12345186	12/29/2008	8050404	11/01/2011	Granted
RPX Clearinghouse LLC	Techniques for time transfer via signal encoding	United States of America	12347314	12/31/2008	7995621	08/09/2011	Granted
RPX Clearinghouse LLC	Method and apparatus for securing fiber in an optical network	United States of America	12350333	01/08/2009	8000601	08/16/2011	Granted
RPX Clearinghouse LLC	High-speed scheduling apparatus for a switching node	United States of America	12365995	02/05/2009	7983273	07/19/2011	Granted
RPX Clearinghouse LLC	Link bundle co-routed VCAT via RSVP message bundling	United States of America	12394405	02/27/2009	7948885	05/24/2011	Granted
RPX Clearinghouse LLC	Service instance applied to MPLS networks	United States of America	12412589	03/27/2009	8811388	08/19/2014	Granted
RPX Clearinghouse LLC	Enhanced communication bridge	United States of America	12420976	04/09/2009	9191234	11/17/2015	Granted
RPX Clearinghouse LLC	Flow-rate-regulated burst switches	United States of America	12427106	04/21/2009	8031598	10/04/2011	Granted
RPX Clearinghouse LLC	Geographic redundancy for call servers in a cellular system based on a bearer-independent core network	United States of America	12463634	05/11/2009	7995564	08/09/2011	Granted
RPX Clearinghouse LLC	Optical switch with power equalization	United States of America	12476693	06/02/2009	7995919	08/09/2011	Granted
RPX Clearinghouse LLC	Hitless manual cryptographic key refresh in secure packet networks	United States of America	12482187	06/10/2009	8082441	12/20/2011	Granted
RPX Clearinghouse LLC	Method and apparatus for simulating IP multinetting	United States of America	12490180	06/23/2009	8064458	11/22/2011	Granted
RPX Clearinghouse LLC	Utilizing betweenness to determine forwarding state in a routed network	United States of America	12490187	06/23/2009	8040906	10/18/2011	Granted
RPX Clearinghouse LLC	Mobile fast alerting	United States of America	12492565	06/26/2009	8208968	06/26/2012	Granted
RPX Clearinghouse LLC	Circulating switch	United States of America	12493801	06/29/2009	7961649	06/14/2011	Granted

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RPX Clearinghouse LLC	Device programmable network based packet filter	United States of America	12503266	07/15/2009	8966607	02/24/2015	Granted
RPX Clearinghouse LLC	Elastic traffic marking for multi-priority packet streams in a communications network	United States of America	12512363	07/30/2009	8179800	05/15/2012	Granted
RPX Clearinghouse LLC	Distributed authentication, authorization and accounting	United States of America	12518636	12/12/2007	8763088	06/24/2014	Granted
RPX Clearinghouse LLC	Telecommunications network	United States of America	12549584	08/28/2009	7983202	07/19/2011	Granted
RPX Clearinghouse LLC	Media proxy able to detect blocking	United States of America	12572007	10/01/2009	8000236	08/16/2011	Granted
Carleton University / RPX Clearinghouse LLC	Transcoders and mixers for voice-over-IP conferencing	United States of America	12587591	10/09/2009	8077636	12/13/2011	Granted
RPX Clearinghouse LLC	Recursive identification of individuals for casual collaborative conferencing	United States of America	12605168	10/23/2009	7860229	12/28/2010	Granted
RPX Clearinghouse LLC	Method and system for configuring a connection-oriented packet network over a wavelength division multiplexed optical network	United States of America	12609039	10/30/2009	7925161	04/12/2011	Granted
RPX Clearinghouse LLC	Distributed connection establishment and restoration	United States of America	12612869	11/05/2009	8750141	06/10/2014	Granted
RPX Clearinghouse LLC	Secure remote access public communication environment	United States of America	12638556	12/15/2009	8893260	11/18/2014	Granted
RPX Clearinghouse LLC	System and method for translating application program network service requests into actions and performing those actions through the management and/or control plane responsive to previously defined policies and previous requests by the same or another application program	United States of America	12643936	12/21/2009	7984154	07/19/2011	Granted
RPX Clearinghouse LLC	Telephony and data network services at a telephone	United States of America	12646404	12/23/2009	8964727	02/24/2015	Granted
RPX Clearinghouse LLC	Verification of configuration information in BGP VPNs	United States of America	12649562	12/30/2009	8266322	09/11/2012	Granted
RPX	Multi-case enabled	United States of America	12661895	03/24/2010	8024474	09/20/2011	Granted

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Clearinghouse LLC	address resolution protocol	States of America					
RPX Clearinghouse LLC	Method and architecture for a scalable application and security switch using multi-level load balancing	United States of America	12685505	01/11/2010	8130645	03/06/2012	Granted
RPX Clearinghouse LLC	Method and apparatus for assigning and allocating network resources to layer 1 Virtual Private Networks	United States of America	12723010	03/12/2010	8560697	10/15/2013	Granted
RPX Clearinghouse LLC	Flow admission control in an IP network	United States of America	12728459	03/22/2010	8081571	12/20/2011	Granted
RPX Clearinghouse LLC	Uplink power control scheme for a wireless communication system	United States of America	12741774	11/07/2008	9084205	07/14/2015	Granted
RPX Clearinghouse LLC	Voice optimization in a network having voice over internet protocol communication devices	United States of America	12749270	03/29/2010	8451835	05/28/2013	Granted
RPX Clearinghouse LLC	Method and apparatus for transporting ethernet services	United States of America	12785527	05/24/2010	8085811	12/27/2011	Granted
RPX Clearinghouse LLC	Technique for accommodating electronic components on a multilayer signal routing device	United States of America	12850896	08/05/2010	9008121	04/14/2015	Granted
RPX Clearinghouse LLC	Multi-rate transparent MUX for optical communications networks	United States of America	12877678	09/08/2010	8964782	02/24/2015	Granted
RPX Clearinghouse LLC	Multicast implementation in a link state protocol controlled Ethernet network	United States of America	12910477	10/22/2010	8867366	10/21/2014	Granted
RPX Clearinghouse LLC	Recursive identification of individuals for casual collaborative conferencing	United States of America	12950749	11/19/2010	8442199	05/14/2013	Granted
RPX Clearinghouse LLC	Dual mode base station	United States of America	12958470	12/02/2010	8971220	03/03/2015	Granted
RPX Clearinghouse LLC	Mechanism to divert an IP flow over a non-IP transport	United States of America	12992122	05/12/2009	9055330	06/09/2015	Granted
RPX Clearinghouse LLC	Controlling allocation of a portion of a shared channel to use for control information	United States of America	12993322	06/30/2009	9078191	07/07/2015	Granted
RPX Clearinghouse LLC	Implementation of VPNs over a link state protocol controlled Ethernet network	United States of America	13004979	01/12/2011	8971332	03/03/2015	Granted
RPX Clearinghouse LLC	Automatic remote communication using	United States of America	13007576	01/14/2011	8265653	09/11/2012	Granted



Owner	Title	Country	Application No.	Filing Date	Patent No.	Issue Date	Patent Status
LLC	network telephony	America					
RPX Clearinghouse LLC	Cross-connect using ethernet multiplexors for a simple metro ethernet network	United States of America	13012522	01/24/2011	9014217	04/21/2015	Granted
RPX Clearinghouse LLC	Tie-breaking in shortest path determination	United States of America	13023823	02/09/2011	8699329	04/15/2014	Granted
RPX Clearinghouse LLC	Method and apparatus for discovering, negotiating, and provisioning end-to-end SLAs between multiple service provider domains	United States of America	13044598	03/10/2011	8934357	01/13/2015	Granted
RPX Clearinghouse LLC	Protection for provider backbone bridge traffic engineering	United States of America	13044905	03/10/2011	9106524	08/11/2015	Granted
RPX Clearinghouse LLC	Ethernet OAM performance management	United States of America	13047128	03/14/2011	8953456	02/10/2015	Granted
RPX Clearinghouse LLC	Method and system for configuring a connection-oriented packet network over a wavelength division multiplexed optical network	United States of America	13051030	03/18/2011	8824887	09/02/2014	Granted
RPX Clearinghouse LLC	Method and apparatus for increasing the scalability of the ethernet OAM	United States of America	13078503	04/01/2011	8811181	08/19/2014	Granted
RPX Clearinghouse LLC	Method and system for transmitting signaling information over a data transport network	United States of America	13091870	04/21/2011	8964981	02/24/2015	Granted
RPX Clearinghouse LLC	Multi-protocol support over ethernet packet-switched networks	United States of America	13110380	05/18/2011	8483229	07/09/2013	Granted
RPX Clearinghouse LLC	Method and system for space code transmit diversity of PUCCH	United States of America	13119630	09/18/2009	9036663	05/19/2015	Granted
RPX Clearinghouse LLC	System and method for translating application program network service requests into actions and performing those actions through the management and/or control plane responsive to previously defined policies and previous requests by the same or another application program	United States of America	13156178	06/08/2011	8943212	01/27/2015	Granted
RPX Clearinghouse LLC	Multi-mode endpoint in a communication network system and methods thereof	United States of America	13162496	06/16/2011	8315251	11/20/2012	Granted
RPX Clearinghouse LLC	Method and system for weighted fair queuing	United States of America	13169504	06/27/2011	8711871	04/29/2014	Granted

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RPX Clearinghouse LLC	Automatic MEP provisioning in a link state controlled ethernet network	United States of America	13173807	06/30/2011	8918538	12/23/2014	Granted
RPX Clearinghouse LLC	Geographic redundancy for call servers in a cellular system based on a bearer-independent core network	United States of America	13180045	07/11/2011	8576700	11/05/2013	Granted
RPX Clearinghouse LLC	Optical switch with power equalization	United States of America	13205115	08/08/2011	8526813	09/03/2013	Granted
RPX Clearinghouse LLC	Label switched path OAM wrapper	United States of America	13212327	08/18/2011	8971189	03/03/2015	Granted
RPX Clearinghouse LLC	Autodiscovery for virtual networks	United States of America	13226872	09/07/2011	9154463	10/06/2015	Granted
RPX Clearinghouse LLC	Methods and systems for providing a logical network layer for delivery of input/output data	United States of America	13256503	03/18/2010	8842677	09/23/2014	Granted
RPX Clearinghouse LLC	Method and architecture for a scalable application and security switch using multi-level load balancing	United States of America	13267667	10/06/2011	8477613	07/02/2013	Granted
RPX Clearinghouse LLC	Technique for admission control of packet flows	United States of America	13269667	10/10/2011	8531948	09/10/2013	Granted
RPX Clearinghouse LLC	Method and apparatus for providing availability metrics for measurement and management of ethernet services	United States of America	13269724	10/10/2011	8520530	08/27/2013	Granted
RPX Clearinghouse LLC	Expedited resource negotiation in SIP	United States of America	13275896	10/18/2011	8948186	02/03/2015	Granted
RPX Clearinghouse LLC	Dynamic establishment of virtual circuits multisegment pseudowires	United States of America	13275956	10/18/2011	8787218	07/22/2014	Granted
RPX Clearinghouse LLC	Method and apparatus for simulating IP multinetting	United States of America	13286241	11/01/2011	8699492	04/15/2014	Granted
RPX Clearinghouse LLC	System and method for responding to failure of a hardware locus at a communication installation	United States of America	13296828	11/15/2011	8954795	02/10/2015	Granted
RPX Clearinghouse LLC	Hitless manual cryptographic key refresh in secure packet networks	United States of America	13299997	11/18/2011	8631228	01/14/2014	Granted
RPX Clearinghouse LLC	Multicast implementation in a link state protocol controlled ethernet network	United States of America	13302704	11/22/2011	9008088	04/14/2015	Granted

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RPX Clearinghouse LLC	Interactive content for click-to-call calls	United States of America	13303566	11/23/2011	8477919	07/02/2013	Granted
RPX Clearinghouse LLC	Flow admission control in an IP network	United States of America	13330042	12/19/2011	8908509	12/09/2014	Granted
RPX Clearinghouse LLC	Technique for enabling a plurality of software components to communicate in a software component matrix environment	United States of America	13334375	12/22/2011	8341218	12/25/2012	Granted
RPX Clearinghouse LLC	System and method for automatically managing participation at a meeting or conference	United States of America	13337769	12/27/2011	9024993	05/05/2015	Granted
RPX Clearinghouse LLC	Apparatus for accelerating failover of VPN traffic in an MPLS provider network	United States of America	13360860	01/30/2012	8493845	07/23/2013	Granted
RPX Clearinghouse LLC	Method for accelerating failover of VPN traffic in an MPLS provider network	United States of America	13360867	01/30/2012	8625414	01/07/2014	Granted
RPX Clearinghouse LLC	Protocol for clock distribution and loop resolution	United States of America	13362319	01/31/2012	8755308	06/17/2014	Granted
RPX Clearinghouse LLC	Method and apparatus for telecommunications network performance anomaly events detection and notification	United States of America	13383971	07/15/2010	8862119	10/14/2014	Granted
RPX Clearinghouse LLC	Method and apparatus for detecting unsolicited multimedia communications	United States of America	13400274	02/20/2012	8457960	06/04/2013	Granted
RPX Clearinghouse LLC	Telephone to computational device association	United States of America	13404508	02/24/2012	8861696	10/14/2014	Granted
RPX Clearinghouse LLC	Method and apparatus for direct frame switching using frame contained destination information	United States of America	13406145	02/27/2012	9019963	04/28/2015	Granted
RPX Clearinghouse LLC	Distributed storage of routing information in a link state protocol controlled network	United States of America	13420720	03/15/2012	8687522	04/01/2014	Granted
RPX Clearinghouse LLC	Method for defending against denial-of-service attack on the IPV6 neighbor cache	United States of America	13421390	03/15/2012	8869278	10/21/2014	Granted
RPX Clearinghouse LLC	Time-value curves to provide dynamic QoS for time sensitive file transfers	United States of America	13423774	03/19/2012	8949846	02/03/2015	Granted
RPX Clearinghouse	Recursive identification of	United States of	13429128	03/23/2012	8625768	01/07/2014	Granted

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LLC	individuals for casual collaborative conferencing	America					
RPX Clearinghouse LLC	Recursive identification of individuals for casual collaborative conferencing	United States of America	13429142	03/23/2012	8542811	09/24/2013	Granted
RPX Clearinghouse LLC	Method and apparatus for secure transport and storage of surveillance video	United States of America	13429483	03/26/2012	8990587	03/24/2015	Granted
RPX Clearinghouse LLC	Personalized conference bridge	United States of America	13439987	04/05/2012	8995636	03/31/2015	Granted
RPX Clearinghouse LLC	Techniques for routing data between network areas	United States of America	13451776	04/20/2012	9001829	04/07/2015	Granted
RPX Clearinghouse LLC	Elastic traffic marking for multi-priority packet streams in a communications network	United States of America	13459645	04/30/2012	8498209	07/30/2013	Granted
RPX Clearinghouse LLC	Apparatus and method for layer-2 and layer-3 VPN discovery	United States of America	13473181	05/16/2012	8949460	02/03/2015	Granted
RPX Clearinghouse LLC	Method and apparatus for interfacing a customer with a call center	United States of America	13474210	05/17/2012	8824662	09/02/2014	Granted
RPX Clearinghouse LLC	Enhanced caller identification using caller readable devices	United States of America	13475480	05/18/2012	8873724	10/28/2014	Granted
RPX Clearinghouse LLC	Tie-breaking in shortest path determination	United States of America	13477366	05/22/2012	8761022	06/24/2014	Granted
RPX Clearinghouse LLC	System, device and method for distributing link state information in a communication network	United States of America	13479925	05/24/2012	8848527	09/30/2014	Granted
RPX Clearinghouse LLC	Method and apparatus for assigning and allocating network resources to packet-based virtual private networks	United States of America	13493248	06/11/2012	9106446	08/11/2015	Granted
RPX Clearinghouse LLC	TDOA based positioning with calculation of correction factors for compensating the clock offsets of unsynchronized network stations	United States of America	13513875	01/22/2010	8818406	08/26/2014	Granted
RPX Clearinghouse LLC	Providing improved post-dial delay at an originating terminal	United States of America	13523275	06/14/2012	8848612	09/30/2014	Granted
RPX Clearinghouse LLC	Call prioritization methods in a call center	United States of America	13523399	06/14/2012	8953765	02/10/2015	Granted
RPX Clearinghouse	Method and apparatus for exchanging routing	United States of	13526907	06/19/2012	8879424	11/04/2014	Granted

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LLC	information and the establishment of connectivity across multiple network areas	America					
RPX Clearinghouse LLC	Failure notification in a network having serially connected nodes	United States of America	13528483	06/20/2012	8885490	11/11/2014	Granted
RPX Clearinghouse LLC	Mobile fast alerting	United States of America	13531663	06/25/2012	8600453	12/03/2013	Granted
RPX Clearinghouse LLC	Forced hold call handling in a VoP environment	United States of America	13539801	07/02/2012	8705517	04/22/2014	Granted
RPX Clearinghouse LLC	Continuity check management in a link state controlled ethernet network	United States of America	13561040	07/29/2012	9059918	06/16/2015	Granted
RPX Clearinghouse LLC	Automatic remote communication using network telephony	United States of America	13566156	08/03/2012	8478296	07/02/2013	Granted
RPX Clearinghouse LLC	Resilient attachment to provider link state bridging (PLSB) networks	United States of America	13586620	08/15/2012	8861335	10/14/2014	Granted
RPX Clearinghouse LLC	Method and apparatus for selecting between available neighbors in a RAPID alternate path calculation	United States of America	13588126	08/17/2012	9059920	06/16/2015	Granted
RPX Clearinghouse LLC	Method and apparatus for selecting between multiple equal cost paths	United States of America	13589372	08/20/2012	8750820	06/10/2014	Granted
RPX Clearinghouse LLC	Method and apparatus for simplifying the computation of alternate network paths	United States of America	13595011	08/27/2012	9124512	09/01/2015	Granted
RPX Clearinghouse LLC	State information and routing table updates in large scale data networks	United States of America	13599461	08/30/2012	8837497	09/16/2014	Granted
RPX Clearinghouse LLC	Verification of configuration information in BGP VPNs	United States of America	13602266	09/03/2012	8554901	10/08/2013	Granted
RPX Clearinghouse LLC	Secure group communications	United States of America	13645137	10/04/2012	9071588	06/30/2015	Granted
RPX Clearinghouse LLC	Method and apparatus for document matching	United States of America	13663544	10/30/2012	8694500	04/08/2014	Granted
RPX Clearinghouse LLC	Multi-mode endpoint in a communication network system and methods thereof	United States of America	13665072	10/31/2012	8717950	05/06/2014	Granted
RPX Clearinghouse LLC	Handoff of a mobile station between packet-switched and circuit-switched wireless domains	United States of America	13666197	11/01/2012	8937859	01/20/2015	Granted
RPX Clearinghouse LLC	Handoff of a mobile station between packet-switched and circuit-	United States of America	13666201	11/01/2012	8937860	01/20/2015	Granted

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	switched wireless domains						
RPX Clearinghouse LLC	Scaling OAM for point-to-point trunking	United States of America	13676472	11/14/2012	8854975	10/07/2014	Granted
RPX Clearinghouse LLC	Differential forwarding in address-based carrier networks	United States of America	13683672	11/21/2012	8976793	03/10/2015	Granted
RPX Clearinghouse LLC	Method and Apparatus for Increasing the Output of a Cryptographic System	United States of America	13693312	12/04/2012	9331853	05/03/2016	Granted
RPX Clearinghouse LLC	Web based access to video associated with calls	United States of America	13713880	12/13/2012	8988481	03/24/2015	Granted
RPX Clearinghouse LLC	Method and system for packet discard precedence for video transport	United States of America	13722074	12/20/2012	8717897	05/06/2014	Granted
RPX Clearinghouse LLC	Technique for enabling a plurality of software components to communicate in a software component matrix environment	United States of America	13724017	12/21/2012	8706806	04/22/2014	Granted
RPX Clearinghouse LLC	Security bridging	United States of America	13726894	12/26/2012	8959610	02/17/2015	Granted
RPX Clearinghouse LLC	Method to process a call request	United States of America	13740759	01/14/2013	9001818	04/07/2015	Granted
RPX Clearinghouse LLC	Method and apparatus for Ethernet data compression	United States of America	13750373	01/25/2013	8934343	01/13/2015	Granted
RPX Clearinghouse LLC	Frequency agile filter using a digital filter and bandstop filtering	United States of America	13751599	01/28/2013	8909185	12/09/2014	Granted
RPX Clearinghouse LLC	Method and apparatus for overlaying whispered audio onto a telephone call	United States of America	13752015	01/28/2013	9112981	08/18/2015	Granted
RPX Clearinghouse LLC	Frequency agile filter using a digital filter and bandstop filtering	United States of America	13754177	01/30/2013	9088344	07/21/2015	Granted
RPX Clearinghouse LLC	Methods for auto-configuring a router on an IP subnet	United States of America	13758452	02/04/2013	8782183	07/15/2014	Granted
RPX Clearinghouse LLC	Monitoring eDC polarization inverse filter coefficients to identify real-time physical intrusion into a core or metro optical network	United States of America	13783710	03/04/2013	9002148	04/07/2015	Granted
RPX Clearinghouse LLC	Rate controlled optical burst switching	United States of America	13792825	03/11/2013	8902916	12/02/2014	Granted
RPX Clearinghouse LLC	Socks tunneling for firewall traversal	United States of America	13804239	03/14/2013	8984614	03/17/2015	Granted
RPX Clearinghouse LLC	VLAN support of differentiated services	United States of America	13848578	03/21/2013	9118590	08/25/2015	Granted

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RPX Clearinghouse LLC	Method and apparatus enabling improved protection of consumer information in electronic transactions	United States of America	13858435	04/08/2013	8924290	12/30/2014	Granted
RPX Clearinghouse LLC	Differential timing transfer over synchronous ethernet using digital frequency generators and control word signaling	United States of America	13873623	04/30/2013	9065627	06/23/2015	Granted
RPX Clearinghouse LLC	Traffic engineering and bandwidth management of bundled links	United States of America	13888822	05/07/2013	9130861	09/08/2015	Granted
RPX Clearinghouse LLC	Resource conservation for packet television services	United States of America	13896810	05/17/2013	9154836	10/06/2015	Granted
RPX Clearinghouse LLC	Voice optimization in a network having voice over internet protocol communication devices	United States of America	13901107	05/23/2013	9264325	02/16/2016	Granted
RPX Clearinghouse LLC	Method and apparatus for transporting Ethernet services	United States of America	13909635	06/04/2013	9083646	07/14/2015	Granted
RPX Clearinghouse LLC	Method and system for synchronization between network elements	United States of America	13916914	06/13/2013	8811432	08/19/2014	Granted
RPX Clearinghouse LLC	Method for operating multi-domain provider ethernet networks	United States of America	13922843	06/20/2013	8891439	11/18/2014	Granted
RPX Clearinghouse LLC	Communicating data units in a communications network that provides failure protection	United States of America	13928053	06/26/2013	9025441	05/05/2015	Granted
RPX Clearinghouse LLC	Interactive content for click-to-call calls	United States of America	13928594	06/27/2013	8903069	12/02/2014	Granted
RPX Clearinghouse LLC	Automatic remote communication using network telephony	United States of America	13929508	06/27/2013	8886159	11/11/2014	Granted
RPX Clearinghouse LLC	Parallelizeable integrity-aware encryption technique	United States of America	13931085	06/28/2013	9054857	06/09/2015	Granted
RPX Clearinghouse LLC	Elastic traffic marking for multi-priority packet streams in a communications network	United States of America	13933305	07/02/2013	8913500	12/16/2014	Granted
RPX Clearinghouse LLC	Multi-protocol support over Ethernet packet-switched networks	United States of America	13933330	07/02/2013	8917731	12/23/2014	Granted
RPX Clearinghouse LLC	Application server billing	United States of America	13934506	07/03/2013	9015307	04/21/2015	Granted
RPX Clearinghouse LLC	Method and apparatus for controlling calling-party identification	United States of America	13947217	07/22/2013	9025747	05/05/2015	Granted
RPX Clearinghouse	Optical switch with power equalization	United States of	13958806	08/05/2013	9014557	04/21/2015	Granted

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LLC		America					
RPX Clearinghouse LLC	Provider backbone bridging—provider backbone transport internetworking	United States of America	14021063	09/09/2013	9036641	05/19/2015	Granted
RPX Clearinghouse LLC	Method and apparatus for the fast detection of connectivity loss between devices in a network	United States of America	14024829	10/04/2013	9253220	02/02/2016	Granted
RPX Clearinghouse LLC	Method and apparatus for the fast detection of connectivity loss between devices in a network	United States of America	14025004	09/12/2013	9130964	09/08/2015	Granted
RPX Clearinghouse LLC	Method and apparatus for the fast detection of connectivity loss between devices in a network	United States of America	14026237	09/13/2013	9112882	08/18/2015	Granted
RPX Clearinghouse LLC	Resilient provider link state bridging (PLSB) virtual private LAN service (VPLS) interworking	United States of America	14034698	09/24/2013	9100316	08/04/2015	Granted
RPX Clearinghouse LLC	Link bundle co-routed VCAT via RSVP message bundling	United States of America	14084376	11/19/2013	9118605	08/25/2015	Granted
RPX Clearinghouse LLC	Layer-2 to MPLS service mediation architecture	United States of America	14087211	11/22/2013	9106583	08/11/2015	Granted
RPX Clearinghouse LLC	Method and system for weighted fair queuing	United States of America	14093977	12/02/2013	9042224	05/26/2015	Granted
RPX Clearinghouse LLC	Mobile fast alerting	United States of America	14094286	12/02/2013	9172728	10/27/2015	Granted
RPX Clearinghouse LLC	Border gateway protocol extended community attribute for layer-2 and layer-3 virtual private networks	United States of America	14102278	12/10/2013	9055001	06/09/2015	Granted
RPX Clearinghouse LLC	Distributed failure recovery in a routed ethernet network	United States of America	14109021	12/17/2013	9001647	04/07/2015	Granted
RPX Clearinghouse LLC	Method and apparatus for reducing the contribution of noise to digitally sampled signals	United States of America	14109281	12/17/2013	9059690	06/16/2015	Granted
RPX Clearinghouse LLC	Amplifier linearization using non-standard feedback	United States of America	14131131	07/11/2011	9024690	05/05/2015	Granted
RPX Clearinghouse LLC	Recursive identification of individuals for casual collaborative conferencing	United States of America	14137420	12/20/2013	9137134	09/15/2015	Granted
RPX Clearinghouse LLC	Method for accelerating failover of VPN traffic in an MPLS provider	United States of America	14147896	01/06/2014	9036467	05/19/2015	Granted



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	network						
RPX Clearinghouse LLC	Source selection for conference bridges	United States of America	14165070	01/27/2014	8867722	10/21/2014	Granted
RPX Clearinghouse LLC	Method and system for quality of service support for Ethernet multiservice interworking over multiprotocol label switching	United States of America	14171009	02/03/2014	9054994	06/09/2015	Granted
RPX Clearinghouse LLC	Protection switching with transmitter compensation function	United States of America	14177865	02/11/2014	8879904	11/04/2014	Granted
RPX Clearinghouse LLC	Non-broadcast multiple access inverse next hop resolution protocol (INHRP)	United States of America	14179981	02/13/2014	9130855	09/08/2015	Granted
RPX Clearinghouse LLC	Method and apparatus for document matching	United States of America	14185248	02/20/2014	9026533	05/05/2015	Granted
RPX Clearinghouse LLC	Controlling allocation of a portion of a shared channel to use for control information	United States of America	14187658	02/24/2014	9077500	07/07/2015	Granted
RPX Clearinghouse LLC	Managing alternate site switching in an optical communication system	United States of America	14195188	03/03/2014	9225417	12/29/2015	Granted
RPX Clearinghouse LLC	Resilient attachment to provider link state bridging (PLSB) networks	United States of America	14195320	03/03/2014	8964531	02/24/2015	Granted
RPX Clearinghouse LLC	TECHNIQUES FOR TIME TRANSFER VIA SIGNAL ENCODING	United States of America	14216278	03/17/2014	9344207	05/17/2016	Granted
RPX Clearinghouse LLC	Methods of establishing virtual circuits and of providing a virtual private network service through a shared network, and provider edge device for such network	United States of America	14219222	03/19/2014	9065680	06/23/2015	Granted
RPX Clearinghouse LLC	Method and apparatus for simulating IP multinetting	United States of America	14246649	04/07/2014	9118606	08/25/2015	Granted
RPX Clearinghouse LLC	Technique for enabling a plurality of software components to communicate in a software component matrix environment	United States of America	14257256	04/21/2014	9203909	12/01/2015	Granted
RPX Clearinghouse LLC	Method and apparatus for increasing the scalability of the ethernet OAM	United States of America	14267365	05/01/2014	9007917	04/14/2015	Granted
RPX Clearinghouse LLC	Passive optical loopback	United States of America	14287762	05/27/2014	9059798	06/16/2015	Granted
RPX Clearinghouse	Technique for maintaining secure	United States of	14290404	05/29/2014	RE46113	08/16/2016	Granted

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LLC	network connections	America					
RPX Clearinghouse LLC	Elastic traffic marking for multi-priority packet streams in a communications network	United States of America	14300516	06/10/2014	8982704	03/17/2015	Granted
RPX Clearinghouse LLC	Technique for implementing an optical/TDM virtual private network	United States of America	14302207	06/11/2014	9237035	01/12/2016	Granted
RPX Clearinghouse LLC	System, device and method for distributing link state information in a communication network	United States of America	14313261	06/24/2014	9118548	08/25/2015	Granted
RPX Clearinghouse LLC	METHOD TO PROCESS A CALL REQUEST	United States of America	14324787	07/07/2014	9294518	03/22/2016	Granted
RPX Clearinghouse LLC	Methods for auto-configuring a router on an IP subnet	United States of America	14330060	07/14/2014	9104640	08/11/2015	Granted
RPX Clearinghouse LLC	Television delivery system	United States of America	14333538	07/17/2014	9191688	11/17/2015	Granted
RPX Clearinghouse LLC	Technique for end-to-end admission control of real-time packet flows	United States of America	14335330	07/18/2014	9106552	08/11/2015	Granted
RPX Clearinghouse LLC	CALL SERVER SELECTION	United States of America	14340916	07/25/2014	9369584	06/14/2016	Granted
RPX Clearinghouse LLC	State information and routing table updates in large scale data networks	United States of America	14463818	08/20/2014	9143430	09/22/2015	Granted
RPX Clearinghouse LLC	Distribution of XML documents/messages to XML appliances/routers	United States of America	14469086	08/26/2014	8977690	03/10/2015	Granted
RPX Clearinghouse LLC	Differential forwarding in address-based carrier networks	United States of America	14478001	09/05/2014	9356862	05/31/2016	Granted
RPX Clearinghouse LLC	Automated attendant multimedia session	United States of America	14497485	09/26/2014	9264544	02/16/2016	Granted
RPX Clearinghouse LLC	Connectivity fault notification	United States of America	14502176	09/30/2014	9075717	07/07/2015	Granted
RPX Clearinghouse LLC	METHOD AND APPARATUS FOR MANAGING THE INTERCONNECTION BETWEEN NETWORK DOMAINS	United States of America	14507338	10/06/2014	9338052	05/10/2016	Granted
RPX Clearinghouse LLC	Method for operating multi-domain provider ethernet networks	United States of America	14520724	10/22/2014	9112869	08/18/2015	Granted
RPX Clearinghouse LLC	Mechanism to divert an IP flow over a non-IP transport	United States of America	14523014	10/24/2014	9100690	08/04/2015	Granted
RPX Clearinghouse	Interactive content for click-to-call calls	United States of	14548787	11/20/2014	9106744	08/11/2015	Granted

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LLC		America					
RPX Clearinghouse LLC	Steering apparatus for a steered vehicle	United States of America	14563035	12/08/2014	9104227	08/11/2015	Granted
RPX Clearinghouse LLC	System for Controlling LED Light Strings	United States of America	14565701	12/10/2014	9510406	11/29/2016	Granted
RPX Clearinghouse LLC	Multi-protocol support over ethernet packet-switched networks	United States of America	14573139	12/17/2014	9106586	08/11/2015	Granted
RPX Clearinghouse LLC	Associative search engine	United States of America	09351747	7/8/1999	US7236969	6/26/2007	Granted
RPX Clearinghouse LLC	Flow admission control in an ip network	United States of America	14563218	12/8/2014	US9172648	10/27/2015	Granted

RPX Clearinghouse LLC	System and method for providing network application performance management in a network	United States of America	11867288	10/4/2007	US9306812	4/5/2016	Granted
RPX Clearinghouse LLC	Method and apparatus for distributing location-based messages in a wireless communication network	United States of America	09195945	11/19/1998	US6505046	1/7/2003	Granted

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RPX Clearinghouse LLC	Distributed network address translation control	United States of America	13363786	2/1/2012	8788709	7/22/2014	Granted
RPX Clearinghouse LLC	Method and apparatus for using a command design pattern to access and configure network elements	United States of America	09726758	11/29/2000	8782230	7/15/2014	Granted
RPX Clearinghouse LLC	Allocating internet protocol (ip) addresses to nodes in communications networks which use integrated is-is	United States of America	09991386	11/13/2001	8782226	7/15/2014	Granted
RPX Clearinghouse LLC	Monitoring phase nonlinearities in an optical communication system	United States of America	14064901	10/28/2013	8781317	7/15/2014	Granted
RPX Clearinghouse LLC	Method for maintaining differentiated services data flow at a network device implementing redundant packet discard security techniques	United States of America	12781908	5/18/2010	8755280	6/17/2014	Granted
RPX Clearinghouse LLC	Optimized scheduling method for delay-sensitive traffic on high speed shared packet data channels	United States of America	12767887	4/27/2010	8750329	6/10/2014	Granted
RPX Clearinghouse LLC	Generic snmp information collection	United States of America	11313898	12/21/2005	8745181	6/3/2014	Granted

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RPX Clearinghouse LLC	Brokering network resources	United States of America	13652109	10/15/2012	8738741	5/27/2014	Granted
RPX Clearinghouse LLC	Mpls/ip pseudo-wire and layer-2 virtual private network resiliency	United States of America	10670568	9/26/2003	8737200	5/27/2014	Granted
RPX Clearinghouse LLC	Ethernet lan service enhancements	United States of America	11024692	12/30/2004	8718057	5/6/2014	Granted
RPX Clearinghouse LLC	Selective processing of damaged packets	United States of America	10742196	12/19/2003	8717868	5/6/2014	Granted
RPX Clearinghouse LLC	Scalable balanced switches	United States of America	11377128	3/16/2006	8687628	4/1/2014	Granted
RPX Clearinghouse LLC	Method and apparatus for providing replay protection in systems using group security associations	United States of America	10864146	6/9/2004	8687485	4/1/2014	Granted
RPX Clearinghouse LLC	Method and apparatus for estimating end-to-end packet delay	United States of America	11013022	12/15/2004	8670315	3/11/2014	Granted
RPX Clearinghouse LLC	Bifurcated conferencing functions	United States of America	11616701	12/27/2006	8660040	2/25/2014	Granted
RPX Clearinghouse LLC	Packet handler for high-speed data networks	United States of America	10196884	7/17/2002	7796583	9/14/2010	Granted
RPX Clearinghouse LLC	Technique for adaptively load balancing connections in multi-link trunks	United States of America	09/946736	9/6/2001	7787370	8/31/2010	Granted
RPX Clearinghouse LLC	Communication of control and data path state for networks	United States of America	10744838	12/23/2003	7774474	8/10/2010	Granted
RPX Clearinghouse LLC	Distributed call server supporting communication sessions in a communication system and method	United States of America	10610511	6/30/2003	7765302	7/27/2010	Granted
RPX Clearinghouse LLC	Service enabling technology	United States of America	09695108	10/25/2000	7761541	7/20/2010	Granted
RPX Clearinghouse LLC	Self-provisioning node and network	United States of America	10738895	12/17/2003	7756959	7/13/2010	Granted
RPX Clearinghouse LLC	Bimodal burst switching	United States of America	11858373	9/20/2007	7756141	7/13/2010	Granted
RPX Clearinghouse LLC	Non-intrusive monitoring of quality levels for voice communications over a packet-based network	United States of America	10267765	10/9/2002	7746797	6/29/2010	Granted
RPX Clearinghouse LLC	Method and apparatus for preserving data in a system implementing diffserv and ipsec protocol	United States of America	10611392	6/30/2003	7746781	6/29/2010	Granted
RPX Clearinghouse LLC	Sip messages carrying executable computer software code	United States of America	09520853	3/7/2000	7743149	6/22/2010	Granted

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RPX Clearinghouse LLC	Method and apparatus for intelligent management of a network element	United States of America	10678705	10/3/2003	7734748	6/8/2010	Granted
RPX Clearinghouse LLC	Method and apparatus for non-intrusive single-ended voice quality assessment in voip	United States of America	11629548	6/15/2005	7729275	6/1/2010	Granted
RPX Clearinghouse LLC	Optimized scheduling method for delay-sensitive traffic on high speed shared packet data channels	United States of America	11241462	9/30/2005	7715341	5/11/2010	Granted
RPX Clearinghouse LLC	Distributed services based on presence technology	United States of America	10336523	1/3/2003	7711810	5/4/2010	Granted
RPX Clearinghouse LLC	Metro ethernet service enhancements	United States of America	10858076	6/2/2004	7701948	4/20/2010	Granted
RPX Clearinghouse LLC	Auto-compression for media over ip	United States of America	10403582	3/31/2003	7688852	3/30/2010	Granted
RPX Clearinghouse LLC	Multi-dimensional lattice network	United States of America	10969748	10/20/2004	7684389	3/23/2010	Granted
RPX Clearinghouse LLC	Agent detector, with optional agent recognition and log-in capabilities, and optional portable call history storage	United States of America	10902639	7/29/2004	7680263	3/16/2010	Granted
RPX Clearinghouse LLC	Interworking of dissimilar packet networks for telephony communications	United States of America	10963262	10/12/2004	7675934	3/9/2010	Granted
RPX Clearinghouse LLC	Communication system architecture and operating methods thereof	United States of America	11065308	2/24/2005	7675853	3/9/2010	Granted
RPX Clearinghouse LLC	Content networks	United States of America	09751289	12/29/2000	7114003	9/26/2006	Granted
RPX Clearinghouse LLC	Method, apparatus and article of manufacture for web-based control of a unified multi-service communication system	United States of America	09414590	10/8/1999	7111056	9/19/2006	Granted
RPX Clearinghouse LLC	Distributed photonic switch and optical uni server	United States of America	09972911	10/10/2001	7110670	9/19/2006	Granted
RPX Clearinghouse LLC	Instance memory handoff in multi-processor systems	United States of America	09739714	12/20/2000	7110417	9/19/2006	Granted
RPX Clearinghouse LLC	Transporting telephony signaling over a data network	United States of America	09517903	3/3/2000	7110391	9/19/2006	Granted
RPX Clearinghouse LLC	Technique for accommodating electronic components on a multiplayer signal routing device	United States of America	10716599	11/20/2003	7107673	9/19/2006	Granted
RPX Clearinghouse LLC	Technique for multicasting optical frequency channels in a multi-channel optical	United States of America	10303015	11/25/2002	7106977	9/12/2006	Granted

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RPX Clearinghouse LLC	system Integrated photonic switch	United States of America	09584363	6/1/2000	7106966	9/12/2006	Granted
RPX Clearinghouse LLC	Scheduler with fairness control and quality of service support	United States of America	10050091	11/16/2001	7103350	9/5/2006	Granted
RPX Clearinghouse LLC	All optical clock recovery	United States of America	10191512	7/10/2002	7103282	9/5/2006	Granted
RPX Clearinghouse LLC	Network planning tool	United States of America	09751060	12/29/2000	7103003	9/5/2006	Granted
RPX Clearinghouse LLC	System and method for regulating web site access	United States of America	09713292	11/16/2000	7099933	8/29/2006	Granted
RPX Clearinghouse LLC	Call origination control	United States of America	10693806	10/24/2003	7096043	8/22/2006	Granted
RPX Clearinghouse LLC	System, device, and method for localized information processing in a multiprotocol label switching network	United States of America	09954136	9/17/2001	7095736	8/22/2006	Granted
RPX Clearinghouse LLC	Method and apparatus for associating information with an object in a file	United States of America	09466640	12/20/1999	7092934	8/15/2006	Granted
RPX Clearinghouse LLC	Apparatus and method for supporting differentiated packet data services within a wireless network	United States of America	09708782	11/8/2000	7092727	8/15/2006	Granted
RPX Clearinghouse LLC	Resource management in heterogenous qos-based packet networks	United States of America	09970883	10/5/2001	7092356	8/15/2006	Granted
RPX Clearinghouse LLC	Universal edge node	United States of America	10025982	12/26/2001	7082132	7/25/2006	Granted
RPX Clearinghouse LLC	Optical signal generator with stabilized carrier frequency output	United States of America	09892492	6/28/2001	7079772	7/18/2006	Granted
RPX Clearinghouse LLC	System and apparatus for dropping and adding optical data streams in an optical communication network	United States of America	09740706	12/19/2000	7079770	7/18/2006	Granted
RPX Clearinghouse LLC	Method and apparatus for implementing an extensible range of communications services in telephone networks	United States of America	09742419	12/22/2000	7079640	7/18/2006	Granted
RPX Clearinghouse LLC	Methods and systems for enabling charging land-line long-distance calls to wireless subscriber's account	United States of America	10402186	3/26/2003	7076038	7/11/2006	Granted
RPX Clearinghouse LLC	Method and apparatus for implementing hub-and-spoke topology virtual private networks	United States of America	10746472	12/23/2003	7075933	7/11/2006	Granted

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RPX Clearinghouse LLC	Network path selection based on bandwidth	United States of America	10106781	3/27/2002	7072304	7/4/2006	Granted
RPX Clearinghouse LLC	Alignment laser for use in cross-connects	United States of America	10383437	3/7/2003	7072031	7/4/2006	Granted
RPX Clearinghouse LLC	Method for reducing the number of layers in a multilayer signal routing device	United States of America	10326123	12/23/2002	7069650	7/4/2006	Granted
RPX Clearinghouse LLC	Techniques for reducing the number of layers in a multilayer signal routing device	United States of America	10407460	4/7/2003	7069646	7/4/2006	Granted
RPX Clearinghouse LLC	Techniques for dilating and reverse dilating optical channels in an optical system	United States of America	10195531	7/16/2002	7068935	6/27/2006	Granted
RPX Clearinghouse LLC	Method and system for providing visual notification in a unified messaging system	United States of America	10246719	9/18/2002	7068762	6/27/2006	Granted
RPX Clearinghouse LLC	Telephone based access to instant messaging	United States of America	09707987	11/8/2000	7065186	6/20/2006	Granted
RPX Clearinghouse LLC	Method and design for increasing signal to noise ratio in xdsl modems	United States of America	10083305	2/26/2002	7065143	6/20/2006	Granted
RPX Clearinghouse LLC	Link capacity adjustment component	United States of America	10090383	3/4/2002	7058008	6/6/2006	Granted
RPX Clearinghouse LLC	Technique for routing data within an optical network	United States of America	09685090	10/11/2000	7054557	5/30/2006	Granted
RPX Clearinghouse LLC	Multilayer circuit board	United States of America	10431388	5/8/2003	7051433	5/30/2006	Granted
RPX Clearinghouse LLC	Controlling a destination terminal from an originating terminal	United States of America	09606053	6/28/2000	7050861	5/23/2006	Granted
RPX Clearinghouse LLC	Metropolitan photonic switch	United States of America	10768050	2/2/2004	7050667	5/23/2006	Granted
RPX Clearinghouse LLC	Multimedia augmented call coverage	United States of America	10261577	10/1/2002	7050565	5/23/2006	Granted
RPX Clearinghouse LLC	Method and apparatus for broadcasting media objects with guaranteed quality of service	United States of America	10939023	9/10/2004	7047307	5/16/2006	Granted
RPX Clearinghouse LLC	Method and system for determining availability in networks	United States of America	09984700	10/31/2001	7046693	5/16/2006	Granted
RPX Clearinghouse LLC	Method, system and signal for carrying overhead information in a transport network employing photonic switching nodes	United States of America	09648767	8/28/2000	7043160	5/9/2006	Granted
RPX Clearinghouse LLC	Resynchronization of control and data path state for networks	United States of America	10017509	12/18/2001	7042912	5/9/2006	Granted

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RPX Clearinghouse LLC	Dispersion discrimination and compensation system and optical switch for use therewith	United States of America	09965810	10/1/2001	7039318	5/2/2006	Granted
RPX Clearinghouse LLC	Wireless lan wep initialization vector partitioning scheme	United States of America	09753229	12/28/2000	7039190	5/2/2006	Granted
RPX Clearinghouse LLC	Automated data transfer in association with a voice call	United States of America	10324609	12/20/2002	7039170	5/2/2006	Granted
RPX Clearinghouse LLC	Wavelength architecture and implementation for a photonically switched network	United States of America	09870665	6/1/2001	7035541	4/25/2006	Granted
RPX Clearinghouse LLC	User controlled call routing for multiple telephony devices	United States of America	10384047	3/7/2003	7035390	4/25/2006	Granted
RPX Clearinghouse LLC	Dispersion management for long-haul high-speed optical networks	United States of America	10097268	3/15/2002	7034994	4/25/2006	Granted
RPX Clearinghouse LLC	Method and system for providing remote access to previously transmitted enterprise messages	United States of America	09753345	12/29/2000	7031437	4/18/2006	Granted
RPX Clearinghouse LLC	Two-dimensional micro-mirror array enhancements	United States of America	10695109	10/28/2003	7031045	4/18/2006	Granted
RPX Clearinghouse LLC	Apparatus for switching optical signals	United States of America	10926104	8/26/2004	7016564	3/21/2006	Granted
RPX Clearinghouse LLC	Integrated connection admission control and bandwidth on demand for a access asynchronous network	United States of America	09349347	7/7/1999	7016375	3/21/2006	Granted
RPX Clearinghouse LLC	Technique for interchanging wavelengths in a multi-wavelength system	United States of America	09749946	12/29/2000	7010225	3/7/2006	Granted
RPX Clearinghouse LLC	Rotator switch data path structures	United States of America	09971011	10/5/2001	7009964	3/7/2006	Granted
RPX Clearinghouse LLC	Methods of controlling video signals in a video conference	United States of America	09640701	8/17/2000	7007098	2/28/2006	Granted
RPX Clearinghouse LLC	Method and system for solving cellular communications frequency planning problem	United States of America	09676236	9/29/2000	6522885	2/18/2003	Granted
RPX Clearinghouse LLC	Packet handler for high speed data networks	United States of America	13567180	8/6/2012	8811386	8/19/2014	Granted
RPX Clearinghouse LLC	Method and apparatus for securely synchronizing password systems	United States of America	13304060	11/23/2011	8838959	9/16/2014	Granted
RPX Clearinghouse LLC	Method and apparatus for adjusting a symbol decision threshold at a receiver in a communication network	United States of America	12690196	1/20/2010	8948313	2/3/2015	Granted



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RPX Clearinghouse LLC	Method and apparatus for content processing application acceleration	United States of America	10692842	10/24/2003	8891549	11/18/2014	Granted
RPX Clearinghouse LLC	Managing flow control buffer	United States of America	10744769	12/22/2003	8819265	8/26/2014	Granted
RPX Clearinghouse LLC	Self-configuring distributed switch	United States of America	10409702	4/9/2003	7230952	6/12/2007	Granted
RPX Clearinghouse LLC	System, device, and method for managing alternate site switching in an optical communication system	United States of America	09930548	8/15/2001	7738359	6/15/2010	Granted
RPX Clearinghouse LLC	Ethernet differentiated services	United States of America	10868536	6/15/2004	7764688	7/27/2010	Granted
RPX Clearinghouse LLC	Emergency services for packet networks	United States of America	13021134	2/4/2011	8737594	5/27/2014	Granted
RPX Clearinghouse LLC	Passive optical loopback	United States of America	10177998	6/21/2002	8750702	6/10/2014	Granted
RPX Clearinghouse LLC	Multicast-enabled address resolution protocol (mc-arp)	United States of America	13222900	8/31/2011	8782288	7/15/2014	Granted
RPX Clearinghouse LLC	System, device, and method for receiver access control in an internet television system	United States of America	13727800	12/27/2012	8789087	7/22/2014	Granted
RPX Clearinghouse LLC	Modular high-capacity switch	United States of America	12916805	11/1/2010	8792516	7/29/2014	Granted
RPX Clearinghouse LLC	Technique for implementing an optical/tdm virtual private network	United States of America	10326121	12/23/2002	8799430	8/5/2014	Granted
RPX Clearinghouse LLC	Ethernet differentiated services conditioning	United States of America	10868568	6/15/2004	8804728	8/12/2014	Granted
RPX Clearinghouse LLC	Technique for end-to-end admission control of real-time packet flows	United States of America	13682800	11/21/2012	8811182	8/19/2014	Granted
RPX Clearinghouse LLC	Distribution of xml documents/messages to xml appliances/routers	United States of America	14019608	9/6/2013	8838692	9/16/2014	Granted
RPX Clearinghouse LLC	Automated attendant multimedia session	United States of America	13047362	3/14/2011	8848693	9/30/2014	Granted

United States Patent Applications:

Owner	Title	Country	Application No.	Filing Date	Patent No.	Issue Date	Patent Status
RPX Clearinghouse LLC	System and method for validation and enforcement of application security	United States of America	14322166	07/02/2014	—	—	Pending