

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3815902

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
SPECTRA7 MICROSYSTEMS (IRELAND) LIMITED, AS SUCCESSOR IN INTEREST TO REDMERE TECHNOLOGY LIMITED	03/30/2016

RECEIVING PARTY DATA

Name:	MIDCAP FINANCIAL TRUST, AS AGENT
Street Address:	7255 WOODMONT AVE., SUITE 200
Internal Address:	C/O MIDCAP FINANCIAL SERVICES, LLC, AS SERVICER; ATTN: ACCT MGR, SPECTRA7 TRANSACTION
City:	BETHESDA
State/Country:	MARYLAND
Postal Code:	20814

PROPERTY NUMBERS Total: 34

Property Type	Number
Patent Number:	7809085
Patent Number:	8520776
Patent Number:	7937605
Patent Number:	7861277
Patent Number:	7908634
Patent Number:	8006277
Patent Number:	7873980
Patent Number:	8272023
Patent Number:	8479248
Patent Number:	8058918
Patent Number:	7936197
Patent Number:	8295296
Patent Number:	8254402
Patent Number:	7996584
Patent Number:	7729874
Patent Number:	7970567
Patent Number:	8073647
Patent Number:	8280668

PATENT

Property Type	Number
Patent Number:	8437973
Patent Number:	8280669
Patent Number:	7793022
Patent Number:	8546688
Application Number:	14014187
Patent Number:	8502070
Patent Number:	9076575
Patent Number:	8502073
Patent Number:	8680395
Patent Number:	8674225
Patent Number:	8674226
Patent Number:	8674223
Application Number:	14168998
Patent Number:	9040823
Patent Number:	8427129
Patent Number:	8674224

CORRESPONDENCE DATA

Fax Number: (703)610-6200

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (703)610-6100

Email: BOXIP@hoganlovells.com

Correspondent Name: VALERIE BRENNAN, HOGAN LOVELLS US LLP

Address Line 1: 7930 JONES BRANCH DR. FLOOR 9

Address Line 2: ATTN: BOX IP

Address Line 4: MCLEAN, VIRGINIA 22102-3390

NAME OF SUBMITTER: VALERIE BRENNAN

SIGNATURE: /vb/

DATE SIGNED: 04/05/2016

Total Attachments: 62

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INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement is entered into as of the 30 day of March, 2016 by and between MIDCAP FINANCIAL TRUST, a Delaware statutory trust ("Agent") and each of SPECTRA7 MICROSYSTEMS INC., a corporation validly existing under the *Canada Business Corporations Act* and extraprovincially registered in the Province of Ontario, SPECTRA7 MICROSYSTEMS LTD., a Delaware corporation, SPECTRA7 MICROSYSTEMS CORP., a corporation validly existing under the *Business Corporations Act* (Ontario), and SPECTRA7 MICROSYSTEMS (IRELAND) LIMITED, a company duly incorporated under the laws of Ireland with registered number 391763, (each, a "Grantor" and collectively, "Grantors").

RECITALS

A. The Lenders have agreed to make certain advances of money and to extend certain financial accommodation to Grantors (the "Credit Extensions") in the amounts and manner set forth in that certain Credit, Security and Guaranty Agreement dated as of March 30, 2016, by and among Grantors, as either borrowers (collectively, the "Borrowers") or guarantors (collectively, the "Guarantors"), the lenders from time to time party thereto, as lenders (collectively, the "Lenders"), and Agent (as the same may be amended, supplemented, modified, increased, renewed or restated from time to time, the "Credit Agreement"; capitalized terms used herein are used as defined in the Credit Agreement). The Lenders are willing to make the Credit Extensions to Grantors, but only upon the condition, among others, that each Grantor shall grant to Agent, for the ratable benefit of the Lenders, a security interest in certain Copyrights, Trademarks, Patents, and Mask Works (as each term is described below) to secure the obligations of Grantors under the Credit Agreement.

B. Pursuant to the terms of the Credit Agreement, each Grantor has granted to Agent, for the ratable benefit of the Lenders, a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Credit Agreement, each Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

To secure its obligations under the Credit Agreement, each Grantor grants and pledges to Agent, for the ratable benefit of the Lenders, a security interest in all of Grantor's right, title and interest in, to and under its intellectual property (all of which shall collectively be called the "Intellectual Property Collateral"), including, without limitation, the following:

(a) Any and all copyright rights, copyright applications, copyright registrations and like protections in each work of authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held, including without limitation those set forth on Exhibit A attached hereto (collectively, the "Copyrights");

(b) Any and all confidential information and trade secrets, and any and all intellectual property rights in computer software and computer software products now or hereafter existing, created, acquired or held (collectively the "Trade Secrets");

(c) Any and all design rights that may be available to such Grantor now or hereafter existing, created, acquired or held, and applications to register and registrations of the same and like protections (collectively, the "Designs");

(d) All patents, patent applications and like protections including, without limitation, improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the same, including without limitation the patents and patent applications set forth on Exhibit B attached hereto (collectively, the "Patents");

(e) Any trademark and servicemark rights, whether registered or not, applications to register (other than trademark applications constituting Excluded Property) and registrations of the same and like protections, and the entire goodwill of the business of such Grantor connected with and symbolized by such trademarks, including without limitation those set forth on Exhibit C attached hereto (collectively, the "Trademarks");

(f) All mask works or similar rights available for the protection of semiconductor chips, and applications to register and registrations of the same and like protections, now owned or hereafter acquired, including, without limitation those set forth on Exhibit D attached hereto (collectively, the "Mask Works");

(g) Any and all claims for damages by way of past, present and future infringements of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(h) All amendments, extensions, renewals and extensions of any of the Copyrights, Designs, Trademarks, Patents, or Mask Works; and

(i) All proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

The Grantors authorize the Commissioner of Patents, the Registrar of Trademarks and the Registrar of Copyrights and any other government officials to record and register this Agreement upon request by Agent.

The Grantors hereby authorizes Agent to (a) modify this Agreement unilaterally by amending the exhibits to this Agreement to include any Intellectual Property Collateral which a Grantor obtains subsequent to the date of this Agreement, and (b) file a duplicate original of this Agreement containing amended exhibits reflecting such new Intellectual Property Collateral.

Notwithstanding anything herein to the contrary, this Intellectual Property Security Agreement does not grant or pledge any security interest over any Grantor's right, title or interest in or under Excluded Property. This security interest is granted in conjunction with the security interest granted to Agent, for the ratable benefit of the Lenders, under the Credit Agreement. The rights and remedies of Agent with respect to the security interest granted hereby are in addition to those set forth in the Credit Agreement and the other Financing Documents, and those which are now or hereafter available to Agent as a matter of law or equity. Each right, power and remedy of Agent provided for herein or in the Credit Agreement or any of the Financing Documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by Agent of any one or more of the rights, powers or remedies provided for in this Intellectual Property Security Agreement, the Credit Agreement or any of the other Financing

Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Agent, of any or all other rights, powers or remedies.

[Signature page follows.]

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTORS:

Address:

SPECTRA7 MICROSYSTEMS INC.

Spectra7 Microsystems Inc.
110 Cochrane Drive, Suite 202
Markham, ON L3R 9S1
Attention: Tony Stelliga, CEO

By:  (SEAL)
Name: Tony Stelliga
Title: President and Chief Executive Officer

E-Mail: tony@spectra7.com

Address:

SPECTRA7 MICROSYSTEMS CORP.

Spectra7 Microsystems Corp.
110 Cochrane Drive, Suite 202
Markham, ON L3R 9S1
Attention: Tony Stelliga, CEO

By:  (SEAL)
Name: Tony Stelliga
Title: Chief Executive Officer

E-Mail: tony@spectra7.com

Address:

SPECTRA7 MICROSYSTEMS LTD.

Spectra7 Microsystems Ltd.
577 College Ave, Suite C
Palo Alto, CA 94306
Attention: Tony Stelliga, CEO

E-Mail: tony@spectra7.com

By:  (SEAL)
Name: Tony Stelliga
Title: President and Chief Executive Officer

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For and on behalf of

Spectra7 Microsystems (Ireland) Limited

By: 

Name: Tony Stelliga

Title: Director

Address:

Spectra7 Microsystems (Ireland) Limited
Building 6500, Avenue 6000
Cork Airport, Business Park
Cork, Ireland
Attention: Tony Stelliga, CEO

E-Mail: tony@spectra7.com

AGENT:

Address of Agent:

MidCap Financial Trust
c/o MidCap Financial Services, LLC, as
servicer
7255 Woodmont Avenue, Suite 200
Bethesda, Maryland 20814
Attn: Account Manager, Spectra7 transaction

MIDCAP FINANCIAL TRUST

By: Apollo Capital Management, L.P., its
investment manager

By: Apollo Capital Management GP, LLC, its
general partner

By:  (SEAL)
Name: Maurice Amsellem
Title: Authorized Signatory

EXHIBIT A

Copyrights

None.

EXHIBIT B

Patents

[See Attached.]

Trellis Intellectual Property Law Group, PC
US Application/Patent Case Summary Report
 Spectra7 Microsystems Inc.

Date: March 28, 2016

<u>Count</u>	<u>Client/ Client Case No.</u>	<u>Attorney Docket Assigned To</u>	<u>Title</u>	<u>Continuation information</u>	<u>Remarks</u>	<u>Case Status Filing Date Application SN</u>
1	Spectra7/Red-001-US	SPECP0001/CJK/MAG	DATA RECOVERY SYSTEM FOR SOURCE SYNCHRONOUS DATA CHANNELS	SPECP0001P	Patent No. 7,809,085 issued 10/5/2010 7 1/2 year maintenance fee due - 4/5/2018 Assigned to REDMERE TECHNOLOGY LTD. Inventors: Judith Ann Rea Aidan Gerard Keady John Anthony Keane John Martin Horan	Issued 1/13/2007 11/623,069
2	Spectra7/Red-001-US-CIP1	SPECP0001CIP1 CJK/SV/MAG	DATA RECOVERY SYSTEM FOR SOURCE SYNCHRONOUS DATA CHANNELS	SPECP0001	Patent No. 8,520,776 issued 8/27/2013 3 1/2 year maintenance fee due - 2/27/2017 Assigned to REDMERE TECHNOLOGY LTD. Inventors: Judith Ann Rea Aidan Gerard Keady John Anthony Keane John Martin Horan	Issued 7/30/2009 12/461,047
3	Spectra7/Red-001-US-prov	SPECP0001P/CJK/MAG	DATA RECOVERY SYSTEM FOR SOURCE SYNCHRONOUS DATA CHANNELS			Converted 1/19/2006 60/759,985

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4	Spectra7/Red-002-US	SPECP0002 /CIK/MAG	METHOD OF DESKEWING DIFFERENTIAL SIGNAL AND A SYSTEM AND CIRCUIT THEREFOR	SPECP0001P	Patent No. 7,937,605 issued 5/3/2011 7 1/2 year maintenance fee due - 11/5/2018 Assigned to REDMERE TECHNOLOGY LTD. Inventors: Judith Ann Rea Aidan Gerard Keady John Anthony Keane John Martin Horan	Issued 1/13/2007 11/623,070
5	Spectra7/Red-003-US	SPECP0003 CIK/SV/MAG	HIGH-SPEED CABLE WITH EMBEDDED POWER CONTROL	SPECP0003P	Patent No. 7,861,277 issued 12/28/2010 7 1/2 year maintenance fee due - 6/28/2018 Assigned to REDMERE TECHNOLOGY LTD. Inventors: Aidan Gerald Keady John Anthony Keane Judith Ann Rea Benjamin Griffin John Martin Horan	Issued 7/18/2007 11/826,713

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6	Spectra7/Red-003-US-CIP1	SPECP0003CIP1 CJk/SV/MAG	HIGH-SPEED CABLE WITH EMBEDDED POWER CONTROL	SPECP0003	Patent No. 7,908,634 issued 3/15/2011 7 1/2 year maintenance fee due - 9/17/2018 Assigned to REDMERE TECHNOLOGY LTD. Inventors: Aidan Gerald Keady John Anthony Keane Judith Ann Rea Benjamin Griffin John Martin Horan	Issued 7/30/2009 12/461,046
7	Spectra7/Red-003-US-CIP1-CON	SPECP0003CIP1CON CJk/SV/MAG	EMBEDDED POWER CONTROL IN A HIGH-SPEED CABLE	SPECP0003CIP1	Patent No. 8,006,277 issued 8/23/2011 7 1/2 year maintenance fee due - 2/25/2019 Assigned to REDMERE TECHNOLOGY LTD. Inventors: Aidan Gerald Keady John Anthony Keane Judith Ann Rea Benjamin Griffin John Martin Horan	Issued 3/2/2011 12/930,000

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8	Spectra7/Red-003-US-CIP2	SPECP0003CIP2 CJ/KS/V/MAG	HIGH-SPEED CABLE WITH EMBEDDED SIGNAL FORMAT CONVERSION AND POWER CONTROL	SPECP0003	Patent No. 7,873,980 issued 1/18/2011 7 1/2 year maintenance fee due - 7/18/2018 Assigned to REDMERE TECHNOLOGY LTD. Inventors: Aidan Gerald Keady John Anthony Keane Judith Ann Rea Benjamin Griffin John Martin Horan	Issued 6/9/2010 12/801,435
9	Spectra7/Red-003-US-CIP3	SPECP0003CIP3 CJ/KS/V/MAG	STARTUP CIRCUIT AND HIGH SPEED CABLE USING THE SAME	SPECP0003	Patent No. 8,272,023 issued 9/18/2012 7 1/2 year maintenance fee due - 3/18/2020 Assigned to REDMERE TECHNOLOGY LTD. Inventors: Aidan Gerald Keady John Anthony Keane Judith Ann Rea Benjamin Griffin John Martin Horan	Issued 6/9/2010 12/801,434

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10	Spectra7/Red-003-US-CIP3-CON	SPECP0003CIP3CON CJk/SV/MAG	STARTUP CIRCUIT AND HIGH SPEED CABLE USING THE SAME	SPECP0003CIP3	Patent No. 8,479,248 issued 7/2/2013 3 1/2 year maintenance fee due - 1/3/2017 Assigned to REDMERE TECHNOLOGY LTD. Inventors: Aidan Gerald Keady John Anthony Keane Judith Ann Rea Benjamin Griffin John Martin Horan	Issued 9/14/2012 13/573,415
11	Spectra7/Red-003-US-prov	SPECP0003P CJk/SV/MAG	A POWER CONTROL CIRCUIT FOR EMBEDDED CABLE APPLICATIONS			Converted 11/2/2006 60/856,032

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12	Spectra7/Red-004-US	SPECP0004 /CIK/MAG	PROGRAMMABLE HIGH-SPEED CABLE WITH BOOST DEVICE	SPECP0003P	Patent No. 8,058,918 issued 11/15/2011 3 1/2 year maintenance fee due - 5/15/2019 Assigned to REDMERE TECHNOLOGY LTD. Inventors: Aidan Gerard Keady John Anthony Keane Judith Ann Rea Benjamin Griffin John Martin Horan	Issued 7/18/2007 11/826,716
13	Spectra7/Red-004-US-CON	SPECP0004CON /CIK/MAG	PROGRAMMABLE HIGH-SPEED CABLE WITH BOOST DEVICE	SPECP0004	Patent No. 7,936,197 issued 5/5/2011 7 1/2 year maintenance fee due - 11/5/2018 Assigned to REDMERE TECHNOLOGY LTD. Inventors: Aidan Gerard Keady John Anthony Keane Judith Ann Rea Benjamin Griffin John Martin Horan	Issued 2/12/2009 12/379,068

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14	Spectra7/Red-004-US-prov	SPECP0004P /CIK/MAG	A PROGRAMMABLE HIGH-SPEED CABLE WITH BOOST DEVICE			Converted 11/13/2006 60/858,353
15	Spectra7/Red-005-US	SPECP0005 /CIK/MAG	PROGRAMMABLE HIGH-SPEED CABLE WITH PRINTED CIRCUIT BOARD AND BOOST DEVICE	SPECP0003P	Patent No. 8,295,296 issued 10/23/2012 3 1/2 year maintenance fee due - 4/25/2016 Assigned to REDMERE TECHNOLOGY LTD. Inventors: Aidan Gerald Keady John Anthony Keane Judith Ann Rea Benjamin Griffin John Martin Horan	Issued 7/18/2007 11/826,710

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16	Spectra7/Red-005-US-CON	SPECP0005CON /CIK/MAG	PROGRAMMABLE HIGH-SPEED CABLE WITH PRINTED CIRCUIT BOARD AND BOOST DEVICE	SPECP0005	Patent No. 8,254,402 issued 8/28/2012 7 1/2 year maintenance fee due - 2/29/2020 Assigned to REDMERE TECHNOLOGY LTD. Inventors: Aidan Gerald Keady John Anthony Keane Judith Ann Rea Benjamin Griffin John Martin Horan	Issued 2/17/2009 12/379,206
17	Spectra7/Red-006-US	SPECP0006 /CIK/MAG	PROGRAMMABLE CABLE WITH DESKEW AND PERFORMANCE ANALYSIS CIRCUITS	SPECP0003P	Patent No. 7,996,584 issued 8/9/2011 7 1/2 year maintenance fee due - 2/11/2019 Assigned to REDMERE TECHNOLOGY LTD. Inventors: Aidan Gerard Keady John Anthony Keane Judith Ann Rea Benjamin Griffin John Martin Horan	Issued 7/18/2007 11/826,711

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18	Spectra7/Red-007-US	SPECP0007 /CIK/MAG	SYSTEM AND METHOD FOR CALIBRATING A HIGH-SPEED CABLE	SPECP0003P	Patent No. 7,729,874 issued 6/1/2010 7 1/2 year maintenance fee due - 12/1/2017 Assigned to REDMERE TECHNOLOGY LTD. Inventors: Aidan Gerard Keady John Anthony Keane Judith Ann Rea Benjamin Griffin John Martin Horan	Issued 7/18/2007 11/826,712
19	Spectra7/Red-009-US	SPECP0008 /CIK/MAG	SELF CALIBRATING CABLE FOR A HIGH DEFINITION DIGITAL VIDEO INTERFACE	SPECP0008P	Patent No. 7,970,567 issued 6/28/2011 7 1/2 year maintenance fee due - 12/28/2018 Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan John Anthony Keane Gerard David Guthrie	Issued 7/25/2008 12/219,642

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20	Spectra7/Red-009-US-CIP1	SPECP0008CIP1 /CIK/MAG	SELF CALIBRATING CABLE FOR HIGH DEFINITION DIGITAL VIDEO INTERFACE	SPECP0008	Patent No. 8,073,647 issued 12/6/2011 3 1/2 year maintenance fee due - 6/8/2019 Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan John Anthony Keane Gerard David Guthrie	Issued 7/30/2009 12/461,030
21	Spectra7/Red-009-US-CIP2	SPECP0008CIP2 /CIK/MAG	SELF CALIBRATING CABLE FOR HIGH DEFINITION DIGITAL VIDEO INTERFACE	SPECP0008	Patent No. 8,280,668 issued 10/2/2012 3 1/2 year maintenance fee due - 4/4/2016 Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan John Anthony Keane Gerard David Guthrie	Issued 7/30/2009 12/461,031

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22	Spectra7/Red-009-US-CIP3	SPECP0008CIP3 /CIK/MAG	BOOSTED CABLE FOR CARRYING HIGH SPEED CHANNELS AND METHODS FOR CALIBRATING THE SAME	SPECP0008	Patent No. 8,437,973 issued 5/7/2013 3 1/2 year maintenance fee due - 11/7/2016 Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan John Anthony Keane Gerard David Guthrie	Issued 9/15/2009 12/585,410
23	Spectra7/Red-009-US-CON	SPECP0008CON /CIK/MAG	SELF CALIBRATING CABLE FOR A HIGH DEFINITION DIGITAL VIDEO INTERFACE	SPECP0008	Patent No. 8,280,669 issued 10/2/2012 3 1/2 year maintenance fee due - 4/4/2016 Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan John Anthony Keane Gerard David Guthrie	Issued 6/6/2011 13/067,493
24	Spectra7/Red-008-US-prov	SPECP0008P /CIK/MAG	CIRCUITS AND METHODS FOR GIGABIT DATA RECOVERY AND DIGITAL REPEATER IMPLEMENTATION			Converted 7/25/2007 60/935,080

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25	Spectra7/Red-010-US	SPECP0009 /CIK/MAG	REPEATER FORA BIDIRECTIONAL SERIAL BUS	SPECP0008P	Patent No. 7,793,022 issued 9/7/2010 7 1/2 year maintenance fee due - 3/7/2018 Assigned to REDMERE TECHNOLOGY LTD. Inventors: James Denis Travers Padraig Ryan	Issued 7/24/2008 12/219,565
26	Spectra7/Red-011-US	SPECP0010 CIK/AG/MAG	HIGH SPEED DATA CABLE WITH SHIELD CONNECTION	SPECP0010P	Patent No. 8,546,688 issued 10/1/2013 3 1/2 year maintenance fee due - 4/3/2017 Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan David William Mc Gowan Padraig Mc Daid	Issued 2/23/2010 12/656,994

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27	Spectra7/Red-011-US	SPECP0010CON1 CJ/K/AG/MAG	HIGH-SPEED DATA CABLE WITH SHIELD CONNECTION	SPECP0010	Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan David William Mc Gowan Padraig Mc Daid	Allowed 8/29/2013 14/014,187
28	Spectra7/Red-011-US-prov	SPECP0010P /CJ/K/MAG	HIGH-SPEED DATA CABLE WITH SHIELD CONNECTION			Converted 4/14/2009 61/202,869
29	Spectra7/Red-012-US	SPECP0011 CJ/K/AG/MAG	REDUCED WIRE COUNT HIGH SPEED DATA CABLE		Patent No. 8,502,070 issued 8/6/2013 3 1/2 year maintenance fee due - 2/6/2017 Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan Gerald Donal Murphy David William Mc Gowan John Anthony Keane	Issued 7/13/2010 12/805,103

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30	Spectra7/Red-012-US	SPECP0011CON1 CIK/AG/MAG	REDUCED WIRE COUNT HIGH SPEED DATA CABLE	SPECP0011	Patent No. 9,076,575 issued 7/7/2015 3 1/2 year maintenance fee due - 1/7/2019 Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan Gerald Donal Murphy David William Mc Gowan John Anthony Keane	Issued 6/27/2013 13/929,545
31	Spectra7/Red-013-US	SPECP0012 CIK/AG/MAG	LOW IMPEDANCE BOOSTED HIGH SPEED DATA CABLE		Patent No. 8,502,073 issued 8/6/2013 3 1/2 year maintenance fee due - 2/6/2017 Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan Gerald Donal Murphy David William Mc Gowan John Anthony Keane	Issued 7/13/2010 12/805,101

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32	Spectra7/Red-014-US	SPECP0012CIP1 CJ/K/AG/MAG	HIGH SPEED DATA CABLE USING AN OUTER BRAID TO CARRY A SIGNAL	SPECP0012	Patent No. 8,680,395 issued 3/25/2014 3 1/2 year maintenance fee due - 9/25/2017 Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan Gerald Donal Murphy David William Mc Gowan John Anthony Keane	Issued 3/3/2011 13/064,044
33	Spectra7/Red-015-US	SPECP0012CIP2 CJ/K/AG/MAG	ECONOMICAL BOOSTED HIGH SPEED DATA CABLE	SPECP0012	Patent No. 8,674,225 issued 3/18/2014 3 1/2 year maintenance fee due - 9/18/2017 Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan Gerald Donal Murphy David William Mc Gowan John Anthony Keane	Issued 3/3/2011 13/064,042

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34	Spectra7/Red-016-US	SPECP0012CIP3 CJ/K/AG/MAG	HIGH SPEED DATA CABLE INCLUDING A BOOST DEVICE FOR GENERATING A DIFFERENTIAL SIGNAL	SPECP0012	Patent No. 8,674,226 issued 3/18/2014 3 1/2 year maintenance fee due - 9/18/2017 Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan Gerald Donal Murphy David William Mc Gowan John Anthony Keane	Issued 3/3/2011 13/064,043
35	Spectra7/Red-017-US	SPECP0012CIP4 CJ/K/AG/MAG	HIGH SPEED DATA CABLE WITH IMPEDANCE CORRECTION	SPECP0012	Patent No. 8,674,223 issued 3/18/2014 3 1/2 year maintenance fee due - 9/18/2017 Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan Gerald Donal Murphy David William Mc Gowan John Anthony Keane	Issued 3/3/2011 13/064,040

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36	Spectra7/Red-018-US	SPECP0012CIP5 CJ/K/AG/MAG	LOW COST HIGH SPEED DATA CABLE	SPECP0012	Patent No. 8,674,224 issued 3/18/2014 3 1/2 year maintenance fee due - 9/18/2017 Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan Gerald Donal Murphy David William Mc Gowan John Anthony Keane	Issued 3/3/2011 13/064,041
37	Spectra7/Red-017-US	SPECP0012CIPCON CJ/K/AG/MAG	HIGH SPEED DATA CABLE USING AN OUTER BRAID TO CARRY A SIGNAL	SPECP0012CIP1	Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan Gerald Donal Murphy David William Mc Gowan John Anthony Keane	Allowed 1/30/2014 14/168,998

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38	Spectra7/Red-013-US	SPECP0012CON1 CJ/K/AG/MAG	LOW IMPEDANCE BOOSTED HIGH SPEED DATA CABLE	SPECP0012	Patent No. 9,040,823 issued 5/26/2015 3 1/2 year maintenance fee due - 11/26/2018 Assigned to REDMERE TECHNOLOGY LTD. Inventors: John Martin Horan Gerald Donal Murphy David William Mc Gowan John Anthony Keane	Issued 6/27/2013 13/929,550
39	Spectra7/Free-001-US	SPECP0013 CJ/K/SV/MAG	METHOD AND APPARATUS FOR EXTRACTING A DESIRED TELEVISION SIGNAL FROM A WIDEBAND IF INPUT	SPECP0013P	Patent No. 8,502,920 issued 8/6/2013 3 1/2 year maintenance fee due - 2/6/2017 Assigned to FRESCO MICROCHIP INC. Inventors: Vyacheslav Shyshkin Larry Silver Warren Synnott Steve Selby Chris Ouslis Lance Greggain	Issued 3/4/2008 12/041,685

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40	Spectra7/Fre-001-US	SPECP0013CON1 CJ/KS/V/MAG	METHOD AND APPARATUS FOR EXTRACTING A DESIRED TELEVISION SIGNAL FROM A WIDEBAND IF INPUT USING RE-SAMPLING	SPECP0013	Patent No. 9,253,435 issued 2/2/2016 3 1/2 year maintenance fee due - 8/2/2019 Assigned to FRESCO MICROCHIP INC. Inventors: Vyacheslav Shyshkin Larry Silver Warren Synnott Steve Selby Chris Ouslis Lance Greggain	Issued 7/3/2013 13/935,023
41	Spectra7/Fre-001-US-prov	SPECP0013P CJ/KS/V/MAG	UNIVERSAL TELEVISION RECEIVER			Converted 3/14/2007 60/894,832

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42	Spectra7/Fre-002-US	SPECP0014 CJ/KS/VMAG	AUTOMATIC GAIN CONTROL SYSTEM	SPECP0013P	Patent No. 9,083,940 issued 7/14/2015 3 1/2 year maintenance fee due - 1/14/2019 Assigned to FRESCO MICROCHIP INC. Inventors: Steve Selby Chris Ouslis Christina Chiu	Issued 3/4/2008 12/041,695
43	Spectra7/Fre-003-US	SPECP0015 CJ/KS/VMAG	CARRIER RECOVERY SYSTEM WITH PHASE NOISE SUPPRESSION		Patent No. 8,537,285 issued 9/17/2013 3 1/2 year maintenance fee due - 3/17/2017 Assigned to FRESCO MICROCHIP INC. Inventors: Larry Silver Vyacheslav Shyshkin Edmund Tam Gary Cheng	Issued 3/4/2008 12/041,704

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44	Spectra7/Fre-003-US	SPECP0015CON1 CJ/S/VMAG	PHASE-ADJUSTMENT PROCESSING FOR BROADCAST CHANNEL SIGNALS	SPECP0015	Patent No. 9,191,613 issued 11/17/2015 3 1/2 year maintenance fee due - 5/17/2019 Assigned to FRESCO MICROCHIP INC. Inventors: Larry Silver Vyacheslav Shyshkin Edmund Tam Gary Cheng	Issued 8/15/2013 13/967,767
45	Spectra7/Fre-004-US	SPECP0016 CJ/S/VMAG	METHOD AND APPARATUS FOR PROCESSING A SIGNAL WITH A COARSELY POSITIONED IF FREQUENCY	SPECP0013P	Patent No. 8,570,446 issued 10/29/2013 3 1/2 year maintenance fee due - 5/1/2017 Assigned to FRESCO MICROCHIP INC. Inventors: Chris Ouslis Steve Selby Lance Greggain Vyacheslav Shyshkin Larry Silver	Issued 3/4/2008 12/041,720

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46	Spectra7/Fre-005-US	SPECP0017 CJ/KS/VMAG	INTERFERENCE AVOIDANCE IN TELEVISION RECEIVER	SPECP0013P	Patent No. 8,902,365 issued 12/2/2014 3 1/2 year maintenance fee due - 6/4/2018 Assigned to FRESKO MICROCHIP INC. Inventors: Lance Greggain Vyacheslav Shyshkin Chris Ouslis Steve Selby	Issued 2/27/2008 12/038,781
47	Spectra7/Fre-006-US	SPECP0018 CJ/KS/VMAG	SIGNAL DEMODULATOR WITH OVERMODULATION PROTECTION		Patent No. 8,330,873 issued 12/11/2012 3 1/2 year maintenance fee due - 6/13/2016 Assigned to FRESKO MICROCHIP INC. Inventors: Larry Silver Vyacheslav Shyshkin Edmund Tam Gary Cheng Steve Selby	Issued 3/4/2008 12/041,926

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48	Spectra7/Fre-007-US	SPECP0019 CJK/CEK/MAG	HIGH CURRENT DRIVE BANDGAP BASED VOLTAGE REGULATOR	SPECP0019P	Patent No. 8,427,129 issued 4/23/2013 3 1/2 year maintenance fee due - 10/24/2016 Assigned to FRESCO MICROCHIP INC. Inventor: Scott Lawrence Howe	Issued 6/13/2008 12/138,914
49	Spectra7/	SPECP0019P CJK/CEK/MAG	HIGH CURRENT DRIVE VOLTAGE REFERENCE GENERATION CIRCUIT			Converted 6/15/2007 60/944,211
50	Spectra7/Fre-008-US	SPECP0020 CJK/CEK/MAG	MIXED SIGNAL INTEGRATED CIRCUIT, WITH BUILT IN SELF TEST AND METHOD	SPECP0020P	Patent No. 8,659,309 issued 2/25/2014 3 1/2 year maintenance fee due - 8/25/2017 Assigned to FRESCO MICROCHIP INC. Inventor: Scott Lawrence Howe	Issued 11/3/2010 12/938,963
51	Spectra7/	SPECP0020P CJK/CEK/MAG	MIXED SIGNAL INTEGRATED CIRCUIT, WITH BUILT IN SELF TEST AND METHOD			Converted 1/26/2010 61/298,295

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52	Spectra7/Fre-009-US	SPECP0021 CJ/K/AG/MAG	PRE AND POST FILTER AUTOMATIC GAIN CONTROL WITH BOUNDED PRE-FILTER GAIN CONTROL		Patent No. 8,106,709 issued 1/31/2012 7 1/2 year maintenance fee due - 7/31/2019 Assigned to FRESCO MICROCHIP INC. Inventors: Steve Selby Fung Ling Chin Gary Cheng	Issued 12/3/2009 12/630,272
53	Spectra7/Fre-010-US	SPECP0022 CJ/K/AG/MAG	SIGNAL TUNING WITH VARIABLE INTERMEDIATE FREQUENCY FOR IMAGE REJECTION AND METHODS	SPECP0022P	Patent No. 9,184,776 issued 11/10/2015 3 1/2 year maintenance fee due - 5/10/2019 Inventors: John Tryhub Lance Greggain Gary Cheng Stephen Jantzi	Issued 1/11/2011 13/004,755
54	Spectra7/Fre-010-US-prov	SPECP0022P CJ/K/AG/MAG	SIGNAL TUNING WITH VARIABLE INTERMEDIATE FREQUENCY FOR IMAGE REJECTION AND METHODS			Converted 1/11/2010 61/294,092

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55	Spectra7/Fre-011-US	SPECP0023 CJ/K/CEK/MAG	DIGITAL SIGNAL PROCESSOR WITH ADJUSTABLE DATA RATE AND METHODS THEREOF		Patent No. 8,594,168 issued 11/26/2013 3 1/2 year maintenance fee due - 5/26/2017 Assigned to FRESCO MICROCHIP INC. Inventors: Gary Cheng Vyacheslav Shyshkin Steve Selby	Issued 2/29/2012 13/408,011
56	Spectra7/Fre-012-US	SPECP0024 CJ/K/AG/MAG	ACCURATE RADIO FREQUENCY FILTERING USING ACTIVE INTERMEDIATE FREQUENCY FEEDBACK		Patent No. 8,798,570 issued 8/5/2014 3 1/2 year maintenance fee due - 2/5/2018 Assigned to FRESCO MICROCHIP INC. Inventors: Amr M. Fahim Stephen A. Jantzi Atishin Mellati	Issued 12/12/2011 13/323,103

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57	Spectra7/Fre-013-US	SPECP0025 CJ/KS/V/MAG	HARMONIC CANCELLATION FOR FREQUENCY CONVERSION HARMONIC CANCELLATION		Patent No. 8,666,352 issued 3/1/2014 3 1/2 year maintenance fee due - 9/5/2017 Assigned to FRESCO MICROCHIP INC. Inventors: Stephen A. Jantzi Amr M. Fahim	Issued 12/16/2011 13/327,836
58	Spectra7/Fre-014-US-prov	SPECP0026P CJ/KAG/MAG	METHOD FOR INTERLEAVING ANALOG SIGNALS ON REDUCED NUMBER OF OUTPUT LINES		Abandoned per clients instructions	Abandoned 10/9/2012 61/711,568
59	Spectra7/	SPECP0028 CJ/KAG/MAG	METHOD AND SYSTEM FOR SIGNAL DYNAMIC RANGE IMPROVEMENT FOR FREQUENCY DIVISION DUPLEX COMMUNICATION SYSTEMS	SPECP0028P	BAR DATE - Issue fee due 6/20/2016 Assigned to Spectra7 Microsystems Ltd Inventor: Stephane Laurent-Michel	Allowed 11/13/2013 14/079,392
60	Spectra7/	SPECP0028DIV1 CJ/KAG/MAG	A METHOD FOR CALIBRATING DISTORTION CANCELLATION IN DUPLEX COMMUNICATION	SPECP0028		Pending 9/29/2015 14/869,785

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61	Spectra7/	SPECP0028P CJ/KAG/MAG	METHOD AND SYSTEM FOR SIGNAL DYNAMIC RANGE IMPROVEMENT FOR FREQUENCY DIVISION DUPLEX COMMUNICATION SYSTEMS			Converted 11/13/2012 61/725,953
62	Spectra7/	SPECP0029 CJ/KAG/MAG	METHOD AND SYSTEM FOR MITIGATING THE EFFECTS OF A TRANSMITTED BLOCKER AND DISTORTIONS THEREFROM IN A RADIO RECEIVER	SPECP0029P	Assigned to Spectra7 Microsystems Ltd Inventors: Andrew Joo Kim Stephane Laurent-Michel Stephen Jantzi	Pending 11/14/2013 14/080,604
63	Spectra7/	SPECP0029P CJ/KAG/MAG	METHOD AND SYSTEM FOR MITIGATING THE EFFECTS OF A TRANSMITTED BLOCKER AND DISTORTIONS THEREFROM IN A RADIO RECEIVER			Converted 11/14/2012 61/726,523

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64	Spectra7/	SPECP0030 CJ/KS/VMAG	METHOD AND SYSTEM FOR IMPROVING AUDIO FIDELITY IN AN HDMI SYSTEM	SPECP0030P	Patent No. 9,001,275 issued 4/7/2015 3 1/2 year maintenance fee due - 10/9/2018 Assigned to Spectra7 Microsystems Corp. Inventors: Andrew Joo Kim David Anthony Stelliga	Issued 11/19/2013 14/084,463
65	Spectra7/	SPECP0030P CJ/KS/VMAG	METHOD AND SYSTEM FOR IMPROVING AUDIO FIDELITY IN AN HDMI SYSTEM			Converted 11/19/2012 61/728,140
66	Spectra7/	SPECP0031 CJ/KAG/MAG	METHOD AND SYSTEM FOR ACHIEVING HIGHER VIDEO THROUGHPUT AND/OR QUALITY	SPECP0031P	Patent No. 9,258,603 issued 2/9/2016 3 1/2 year maintenance fee due - 8/9/2019 Assigned to Spectra7 Microsystems Corp. Inventors: David Anthony Stelliga Andrew Joo Kim John W. Mitchell	Issued 2/4/2014 14/172,778

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67	Spectra7/	SPECP0031P CJ/K/AG/MAG	METHOD AND SYSTEM FOR ACHIEVING HIGHER VIDEO THROUGHPUT AND/OR QUALITY			Converted 2/4/2013 61/760,632
68	Spectra7/	SPECP0032 CJ/K/AG/MAG	REDUCING ELECTROMAGNETIC RADIATION EMITTED FROM HIGH- SPEED INTERCONNECTS	SPECP0032P	Patent No. 9,172,412 issued 10/27/2015 3 1/2 year maintenance fee due - 4/29/2019 Assigned to Spectra7 Microsystems Corp. Inventors: Andrew Joo Kim David Anthony Stelliga	Issued 3/11/2014 14/205,082
69	Spectra7/	SPECP0032P CJ/K/AG/MAG	REDUCING ELECTROMAGNETIC RADIATION EMITTED FROM HIGH- SPEED INTERCONNECTS			Converted 3/11/2013 61/776,526
70	Spectra7/	SPECP0033P CJ/K/AG/MAG	METHOD AND SYSTEM FOR REDUCING THE IMPACT OF COMMON-MODE NOISE		BAR DATE -1 year from Provisional - File Regular Application - 6/2/2016	Pending 6/2/2015 62/170,125
71	Spectra7/	SPECP0034P CJ/K/AG/MAG	METHOD AND SYSTEM FOR VERSATILE EQUALIZATION WITH VARIOUS SIGNALING MODES		BAR DATE - File Foreign - 6/2/2016	New

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72	Spectra7/	SPECP0035P CJ/K/AG/MAG	DATA CABLE		BAR DATE - 1 year from Provisional - File Regular Application - 1/20/2017 BAR DATE - File Foreign - 1/20/2017	Pending 1/20/2016 62/281,052
73	Spectra7/	SPECP0036P CJ/K/AG/MAG	A DATA CONNECTOR		BAR DATE - 1 year from Provisional - File Regular Application - 1/20/2017 BAR DATE - File Foreign - 1/20/2017	Pending 1/20/2016 62/281,059
74	Spectra7/	SPECP0037P /CJ/K/MAG	CONNECTOR ASSEMBLY		BAR DATE - 1 year from Provisional - File Regular Application - 1/20/2017 BAR DATE - File Foreign - 1/20/2017	Pending 1/20/2016 62/281,107
75	Spectra7/	SPECP0038P CJ/K/AM/MAG	CABLE JUNCTION		BAR DATE - 1 year from Provisional - File Regular Application - 1/20/2017 BAR DATE - File Foreign - 1/20/2017	Pending 1/20/2016 62/281,125

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76	Spectra7/	SPECP0039P CJ/SV/MAG	QUICK-RELEASE CONNECTION FOR VIRTUAL REALITY/AUGMENTED REALITY INTERCONNECT		BAR DATE - 1 year from Provisional - File Regular Application - 3/15/2017 BAR DATE - File Foreign - 3/15/2017	Pending 3/15/2016 62/308,791

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Red-001-CA SPECIP0001P	Red-001-CA TECHNOLOGY LTD.	Canada	Allowed	2,628,017	AN IMPROVED DATA RECOVERY SYSTEM FOR SOURCE SYNCHRONOUS DATA CHANNELS
Red-001-CA SPECIP0001P	Red-001-CA TECHNOLOGY LTD.	Canada	Pending	2,847,651	AN IMPROVED DATA RECOVERY SYSTEM FOR SOURCE SYNCHRONOUS DATA CHANNELS
Red-001-CA-DIV1 SPECIP0001P	Red-001-CA-DIV1 TECHNOLOGY LTD.	Canada	Pending	2,847,650	AN IMPROVED DATA RECOVERY SYSTEM FOR SOURCE SYNCHRONOUS DATA CHANNELS
Red-001-CA-DIV2 SPECIP0001P	Red-001-CA-DIV2 TECHNOLOGY LTD.	Canada	Pending	2,847,649	AN IMPROVED DATA RECOVERY SYSTEM FOR SOURCE SYNCHRONOUS DATA CHANNELS
Red-001-CA-DIV3 SPECIP0001P	Red-001-CA-DIV3 TECHNOLOGY LTD.	Canada	Pending	2,847,649	AN IMPROVED DATA RECOVERY SYSTEM FOR SOURCE SYNCHRONOUS DATA CHANNELS
Red-001-EP SPECIP0001P	Red-001-EP TECHNOLOGY LTD.	EPO	Abandoned	07702813.2	AN IMPROVED DATA RECOVERY SYSTEM FOR SOURCE SYNCHRONOUS DATA CHANNELS
Red-003-CA SPECIP0003P	Red-003-CA TECHNOLOGY LTD.	Canada	Allowed	2,664,597	A PROGRAMMABLE HIGH-SPEED CABLE WITH EMBEDDED POWER CONTROL

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Red-003-CA-DIV1 SPEC P0003P	REDMERE TECHNOLOGY LTD. Red-003-CA-DIV1	Canada	Allowed	2,848,033	A PROGRAMMABLE HIGH-SPEED CABLE WITH EMBEDDED POWER CONTROL
Red-003-CA-DIV1 SPEC P0003P	REDMERE TECHNOLOGY LTD. Red-003-CA-DIV1	Canada	Allowed	2,848,033	A PROGRAMMABLE HIGH-SPEED CABLE WITH EMBEDDED POWER CONTROL
Red-003-CA-DIV1-1 SPEC P0003P	REDMERE TECHNOLOGY LTD. Red-003-CA-DIV1	Canada	Allowed	2,881,328	A PROGRAMMABLE HIGH-SPEED CABLE WITH EMBEDDED POWER CONTROL
Red-003-CA-DIV2 SPEC P0003P	REDMERE TECHNOLOGY LTD. Red-003-CA-DIV2	Canada	Allowed	2,881,337	A PROGRAMMABLE HIGH-SPEED CABLE WITH EMBEDDED POWER CONTROL
Red-003-CA-DIV3 SPEC P0003P	REDMERE TECHNOLOGY LTD. Red-003-CA-DIV3	Canada	Allowed	2,881,328	A PROGRAMMABLE HIGH-SPEED CABLE WITH EMBEDDED POWER CONTROL
Red-003-CN SPEC P0003P	REDMERE TECHNOLOGY LTD. Red-003-CN	China	Abandoned	200780040636.7	A PROGRAMMABLE HIGH-SPEED CABLE WITH EMBEDDED POWER CONTROL
Red-003-JP SPEC P0003P	REDMERE TECHNOLOGY LTD. Red-003-JP	Japan	Issued	2009-534993 4892613	A PROGRAMMABLE HIGH-SPEED CABLE WITH EMBEDDED POWER CONTROL

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SPEC P0003JP DIV1	REDMERE TECHNOLOGY LTD.	Japan	Issued	2011-199445 5511091	A PROGRAMMABLE HIGH-SPEED CABLE WITH EMBEDDED POWER CONTROL
Red-003-JP-DIV SPEC P0003P	Red-003-JP-DIV				
SPEC P0008CN	REDMERE TECHNOLOGY LTD.	China	Issued	200880100471.2	SELF CALIBRATING CABLE FOR A HIGH DEFINITION DIGITAL VIDEO INTERFACE
Red-009-CN SPEC P0008P	Red-009-CN				
SPEC P0008CNDIV	REDMERE TECHNOLOGY LTD.	China	Pending	201410036492.X	SELF CALIBRATING CABLE FOR A HIGH DEFINITION DIGITAL VIDEO INTERFACE
Red-009-CN SPEC P0008P	Red-009-CN				
SPEC P0011JP	REDMERE TECHNOLOGY LTD.	Japan	Allowed		ACTIVE HIGH SPEED DATA CABLE
Red-012-JP SPEC P0011	Red-012-JP				
SPEC P0011KR	REDMERE TECHNOLOGY LTD.	Republic of Korea	Pending	10-2013-7003555	REDUCED WIRE COUNT HIGH SPEED DATA CABLE
Red-012-KR SPEC P0011	Red-012-KR				
SPEC P0012CA	REDMERE TECHNOLOGY LTD.	Canada	Pending	2,745,916	LOW IMPEDANCE BOOSTED HIGH SPEED DATA CABLE
Red-013-CA SPEC P0012	Red-013-CA				BAR DATE - File Request for Examination in Canada - 7/12/2016

Trellis Intellectual Property Law Group, PC
Foreign Patent Summary Report
 Spectra7 Microsystems Inc.

Date: March 28, 2016

Foreign Case No. Priority Case No.	Client Name Client Case No.	Country	Status	App. Serial No. Patent No.	Title
SPEC0013CN Fre-001-CN SPEC0013P	FRESCO MICROCHIP INC. Fre-001-CN	China	Issued	200880015924.1 ZL 200880015924.1	UNIVERSAL TELEVISION RECEIVER
SPEC0013CN Fre-001-CN SPEC0013P	FRESCO MICROCHIP INC. Fre-001-CN	China	Abandoned	201210296591.2	UNIVERSAL TELEVISION RECEIVER
SPEC0013CN Fre-001-CN SPEC0013P	FRESCO MICROCHIP INC. Fre-001-CN	China	Abandoned	201210296621.X	UNIVERSAL TELEVISION RECEIVER
SPEC0013CN Fre-001-CN SPEC0013P	FRESCO MICROCHIP INC. Fre-001-CN	China	Allowed	201210297001.8	UNIVERSAL TELEVISION RECEIVER
SPEC0013EP Fre-001-EP SPEC0013P	FRESCO MICROCHIP INC. Fre-001-EP	EPO	Pending	08733586.5	UNIVERSAL TELEVISION RECEIVER
SPEC0013EP Fre-001-EP SPEC0013P	FRESCO MICROCHIP INC. Fre-001-EP	EPO	Pending	10174375.5	UNIVERSAL TELEVISION RECEIVER

Trellis Intellectual Property Law Group, PC
Foreign Patent Summary Report
 Spectra7 Microsystems Inc.

Date: March 28, 2016

Foreign Case No. Priority Case No.	Client Name Client Case No.	Country	Status	App. Serial No. Patent No.	Title
SPECP0013EPDIV2 Fre-001-EPDIV2 SPECP0013P	FRESCO MICROCHIP INC. Fre-001-EPDIV2	EPO	Pending	10174378.9	UNIVERSAL TELEVISION RECEIVER
SPECP0013EPDIV3 Fre-001-EPDIV3 SPECP0013P	FRESCO MICROCHIP INC. Fre-001-EPDIV3	EPO	Pending	10174390.4	UNIVERSAL TELEVISION RECEIVER
SPECP0013IN Fre-001-IN SPECP0013P	FRESCO MICROCHIP INC. Fre-001-IN	India	Pending	6010/CHENP/2009	UNIVERSAL TELEVISION RECEIVER
SPECP0013KR Fre-001-KR SPECP0013P	FRESCO MICROCHIP INC. Fre-001-KR	South Korea	Issued	10-2009-7020251 10-1374919	UNIVERSAL TELEVISION RECEIVER
SPECP0013KRDIV1 Fre-001-KR SPECP0013P	FRESCO MICROCHIP INC. Fre-001-KR	South Korea	Issued	10-2013-7006599 10-1464901	UNIVERSAL TELEVISION RECEIVER
SPECP0013KRDIV2 Fre-001-KR SPECP0013P	FRESCO MICROCHIP INC. Fre-001-KR	South Korea	Issued	10-2013-7006600 10-1451047	UNIVERSAL TELEVISION RECEIVER

Trellis Intellectual Property Law Group, PC
Foreign Patent Summary Report
 Spectra7 Microsystems Inc.

Date: March 28, 2016

Foreign Case No. Priority Case No.	Client Name Client Case No.	Country	Status	App. Serial No. Patent No.	Title
SPEC P0013KR DIV3 Fre-001-KR SPEC P0013P	FRESCO MICROCHIP INC. Fre-001-KR	South Korea	Issued	10-2013-7006601 10-1449880	UNIVERSAL TELEVISION RECEIVER
SPEC P0022CN Fre-010-CN SPEC P0022P	FRESCO MICROCHIP INC. Fre-010-CN	China	Pending	201180005760.6	SIGNAL TUNING WITH VARIABLE INTERMEDIATE FREQUENCY FOR IMAGE REJECTION AND METHODS
SPEC P0022EP Fre-010-EP SPEC P0022P	FRESCO MICROCHIP INC. Fre-010-EP	EPO	Pending	11731643.0	SIGNAL TUNING WITH VARIABLE INTERMEDIATE FREQUENCY FOR IMAGE REJECTION AND METHODS
SPEC P0022IN Fre-010-IN SPEC P0022P	FRESCO MICROCHIP INC. Fre-010-IN	India	Pending	5393/CHENP/2012	SIGNAL TUNING WITH VARIABLE INTERMEDIATE FREQUENCY FOR IMAGE REJECTION AND METHODS
SPEC P0022KR Fre-010-KR SPEC P0022P	FRESCO MICROCHIP INC. Fre-010-KR	South Korea	Issued	10-2012-7017922 10-1473066	SIGNAL TUNING WITH VARIABLE INTERMEDIATE FREQUENCY FOR IMAGE REJECTION AND METHODS

Trellis Intellectual Property Law Group, PC
PCT Summary Report
 Spectra7 Microsystems Inc.

Date: March 28, 2016

PCT Case No. Priority Case No.	Client Name, Client Case No.	Status,	App. Serial No.	Title
SPECTP0001WO SPEC P0001P	Redmere Technology Limited Red-001-PCT	Done	PCT/EP2007/000356	AN IMPROVED DATA RECOVERY SYSTEM FOR SOURCE SYNCHRONOUS DATA CHANNELS
SPECTP0003WO SPEC P0003P	Redmere Technology Limited Red-003-PCT	Done	PCT/EP2007/006423	A PROGRAMMABLE HIGH-SPEED CABLE WITH EMBEDDED POWER CONTROL
SPECTP0008WO SPEC P0008P	Redmere Technology Limited Red-008-PCT	Done	PCT/EP2008/006130	SELF CALIBRATING CABLE FOR A HIGH DEFINITION DIGITAL VIDEO INTERFACE
SPECTP0009WO SPEC P0009	Redmere Technology Limited Red-010-PCT	Abandoned	PCT/EP2008/006129	REPEATER FOR A BIDIRECTIONAL SERIAL BUS
SPECTP0010PCT SPEC P0010P	Redmere Technology Limited Red-011-PCT	Abandoned	PCT/EP2010/001610	HIGH-SPEED DATA CABLE WITH SHIELD CONNECTION
SPECTP0010WO SPEC P0010P	Redmere Technology Limited Red-011-PCT	Done	PCT/EP2010/001610	HIGH-SPEED DATA CABLE WITH SHIELD CONNECTION
SPECTP0011WO SPEC P0011	Redmere Technology Limited Red-012-PCT	Done	PCT/IB2010/002577	REDUCED WIRE COUNT HIGH SPEED DATA CABLE
SPECTP0013WO SPEC P0013P	Fresco Microchip Inc. Fre-001-PCT	Done	PCT/CA2008/000482	UNIVERSAL TELEVISION RECEIVER
SPECTP0021WO SPEC P0021	Fresco Microchip Inc. Fre-009-PCT	Abandoned	PCT/CA2010/001907	PRE- AND POST-FILTER AUTOMATIC GAIN CONTROL WITH BOUNDED PRE-FILTER GAIN CONTROL
SPECTP0022WO SPEC P0022P	Fresco Microchip Inc. Fre-010-PCT	Done	PCT/CA2011/000016	SIGNAL TUNING WITH VARIABLE INTERMEDIATE FREQUENCY FOR IMAGE REJECTION AND METHODS
SPECTP0023WO SPEC P0023	Spectra7 Microsystems Corp. Fre-011-PC	Abandoned	PCT/IB2013/000794	DIGITAL SIGNAL PROCESSOR WITH ADJUSTABLE RATE AND METHODS THEREOF
SPECTP0028WO SPEC P0028P	Spectra7 Microsystems Ltd. Abandoned	Abandoned	PCT/US2013/069952	METHOD AND SYSTEM FOR SIGNAL DYNAMIC RANGE IMPROVEMENT FOR FREQUENCY DIVISION DUPLEX COMMUNICATION SYSTEMS
SPECTP0029WO SPEC P0029P	Spectra7 Microsystems Ltd. Abandoned	Abandoned	PCT/US2013/070173	METHOD AND SYSTEM FOR MITIGATING THE EFFECTS OF A TRANSMITTED BLOCKER

Trellis Intellectual Property Law Group, PC
PCT Summary Report
Spectra7 Microsystems Inc.

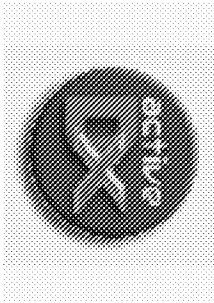
Date: March 28, 2016

PCT Case No. Priority Case No.	Client Name, Client Case No.	Status,	App. Serial No.	Title
SPECTP0031WO SPECP0031P	Spectra7 Microsystems Ltd.	Abandoned	PCT/US2014/014714	AND DISTORTIONS THEREFROM IN A RADIO RECEIVER METHOD AND SYSTEM FOR ACHIEVING HIGHER VIDEO THROUGHPUT AND/OR QUALITY
SPECTP0032WO SPECP0032P	Spectra7 Microsystems Ltd.	Abandoned	PCT/US2014/023710	REDUCING ELECTROMAGNETIC RADIATION EMITTED FROM HIGH-SPEED INTERCONNECTS

EXHIBIT C

Trademarks

[See Attached.]

Trademark	Client-Matter Country	SubCase Case Type	Application Number Filing Date	Publication Number Publication Date	Registration Number Registration Date	Status Next Renewal
ACTIVE DX and Design	61482-225930 United States of America	ORD	86/037347 14-Aug-2013	05-Aug-2014		Allowed
	Owner: Spectra7 Microsystems Corp. Client: Spectra7 Microsystems Ltd. Agent: Classes: 09 Int. Images/Links:				Attorneys: JSQ, SPH, JJW Client Ref: Agent Ref:	
						
	225930					
AR-CONNECT	61482-PENDING7 United States of America	ORD				Proposed
	Owner: Spectra7 Microsystems Corp. Client: Spectra7 Microsystems Ltd. Agent: Classes: 09 Int. Images/Links:				Attorneys: JSQ, SPH, JJW Client Ref: Agent Ref:	
ChromaVR	61482-231855 United States of America	ORD	86/405980 25-Sep-2014	29-Sep-2015		Allowed
	Owner: Spectra7 Microsystems Corp. Client: Spectra7 Microsystems Ltd. Agent: Classes: 09 Int. Images/Links:				Attorneys: JSQ, BIM, JJW Client Ref: Agent Ref:	

Trademark	Client-Matter Country	SubCase Case Type	Application Filing Date	Publication Date	Registration Date	Status Next Renewal
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Couch Connect	61482-224754 United States of America	PRIN ORD	85/906858 17-Apr-2013	17-Sep-2013	4598191 02-Sep-2014	Registered 02-Sep-2024
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Owner: Spectra7 Microsystems Corp.
Client: Spectra7 Microsystems Ltd.
Agent:
Classes: 09 Int.

Attorneys: JSG, SPH, JJW
Client Ref:
Agent Ref:

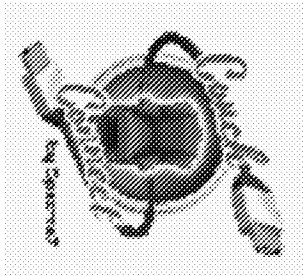
Images/Links:

COUCH CONNECT BY SPECTRA7 and Design	61482-225921 United States of America	PRIN ORD	86/037294 14-Aug-2013	11-Mar-2014	4569874 15-Jul-2014	Registered 15-Jul-2024
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Owner: Spectra7 Microsystems Corp.
Client: Spectra7 Microsystems Ltd.
Agent:
Classes: 09 Int.

Attorneys: JSG, SPH, JJW
Client Ref:
Agent Ref:

Images/Links:



couchconnect

CRYSTAL CLEAR. PICTURE PERFECT.	61482-229109 European Community	ORD	6442743 15-Nov-2007	14-Jul-2008	6442743 22-Jan-2009	Registered 15-Nov-2017
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Owner: REDMERE TECHNOLOGY LTD.
Client: Spectra7 Microsystems Ltd.
Agent: FRKelly
Classes: 09 Int., 42 Int.

Attorneys: JSG, SPH, JJW
Client Ref:
Agent Ref:

Images/Links:

Trademark List by Trademark

Trademark	Client-Matter Country	SubCase Case Type	Application Number Filing Date	Publication Number Publication Date	Registration Number Registration Date	Status Next Renewal
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CRYSTAL CLEAR PICTURE PERFECT.	61482-229101 United States of America	PRIN ORD	77330442 15-Nov-2007	02-Sep-2008	3533352 18-Nov-2008	Registered 18-Nov-2018
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Owner: Spectra7 Microsystems Corp.
Client: Spectra7 Microsystems Ltd.
Agent:
Classes: 09 Int.

Attorneys: JSG, SPH, JJW
Client Ref:
Agent Ref:

Images/Links:

CRYSTAL CLEAR PICTURE. PERFECT *SERIES OF 4 MARKS* *SEE REMARKS*	61482-229107 Ireland	ORD	2007/01211 17-May-2007	28-Nov-2007	237454 17-May-2007	Registered 16-May-2017
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Owner: REDMERE TECHNOLOGY LIMITED
Client: Spectra7 Microsystems Ltd.
Agent: FRKelly
Classes: 09 Int., 42 Int.

Attorneys: JSG, SPH, JJW
Client Ref:
Agent Ref:

Images/Links:

DETECTIV4K	61482-225931 United States of America	ORD	86/037298 14-Aug-2013	07-Jan-2014		Allowed
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Owner: Spectra7 Microsystems Corp.
Client: Spectra7 Microsystems Ltd.
Agent:
Classes: 09 Int.

Attorneys: JSG, SPH, JJW
Client Ref:
Agent Ref:

Images/Links:

DISPLAY DIRECT WEARABLE COMPUTING INTERCONNECT FABRIC and Design	61482-230673 United States of America	ORD	86/331135 08-Jul-2014	04-Aug-2015		Allowed
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Owner: Spectra7 Microsystems Ltd.
Client: Spectra7 Microsystems Ltd.
Agent:
Classes: 09 Int.

Attorneys: JSG, SPH, JJW
Client Ref:
Agent Ref:

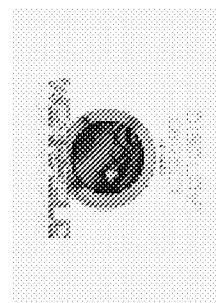
PATENT

REEL: 038358 FRAME: 0736

Trademark List by Trademark

Trademark	Client-Matter Country	SubCase Case Type	Application Number Filing Date	Publication Number Publication Date	Registration Number Registration Date	Status Next Renewal
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Images/Links:



230673

Display/Direct	61482-224752	United States of America	ORD	85/906760	17-Apr-2013	17-Sep-2013	Allowed
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Owner: Spectra7 Microsystems Corp.
Client: Spectra7 Microsystems Ltd.
Agent:
Classes: 09 Int.

Attorneys: JSQ, SPH, JJW
Client Ref:
Agent Ref:

Images/Links:

DREAMWEVR	61482-251573	United States of America	ORD	86/940841	15-Mar-2016		Filed
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Owner: Spectra7 Microsystems Corp.
Client: Spectra7 Microsystems Ltd.
Agent:
Classes: 09 Int.

Attorneys: JSQ, SPH, JJW
Client Ref:
Agent Ref:

Images/Links:

EYETM VERIF	61482-229116	China (People's Republic)	ORD	7412704	21-May-2009		Filed
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Owner: REDMERE TECHNOLOGY LIMITED
Client: Spectra7 Microsystems Ltd.
Agent: Hogan Lovells International LLP
Classes: 09 Int.

Attorneys: JSQ, SPH, JJW
Client Ref:
Agent Ref:

Images/Links:

Trademark List by Trademark

Trademark	Client-Matter Country	SubCase Case Type	Application Number Filing Date	Publication Number Publication Date	Registration Number Registration Date	Status Next Renewal
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GAUGECHANGER	61482-245659 United States of America	ORD	86/876412 15-Jan-2016			Filed
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Owner: Spectra7 Microsystems Corp.
 Client: Spectra7 Microsystems Ltd.
 Agent:
 Classes: 09 Int.

Attorneys: JSG, SPH, JJW
 Client Ref:
 Agent Ref:

Images/Links:

GAUGECHANGER and Design	61482-245660 United States of America	ORD	86/876421 15-Jan-2016			Filed
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Owner: Spectra7 Microsystems Corp.
 Client: Spectra7 Microsystems Ltd.
 Agent:
 Classes: 09 Int.

Attorneys: JSG, SPH, JJW
 Client Ref:
 Agent Ref:

Images/Links:

GAUGECHANGER PLUS	61482-245661 United States of America	ORD	86/876425 15-Jan-2016			Filed
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Owner: Spectra7 Microsystems Corp.
 Client: Spectra7 Microsystems Ltd.
 Agent:
 Classes: 09 Int.

Attorneys: JSG, SPH, JJW
 Client Ref:
 Agent Ref:

Images/Links:

HDPURE HD PURE HDPure *Series of 3 marks*	61482-229108 Ireland	ORD	2006/01039 03-May-2006	07-Feb-2007	235299 03-May-2006	Registered 02-May-2016
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Owner: REDMERE TECHNOLOGY LIMITED
 Client: Spectra7 Microsystems Ltd.
 Agent: FRKelly
 Classes: 09 Int., 42 Int.

Attorneys: JSG, SPH, JJW
 Client Ref:
 Agent Ref:

Images/Links:

HOME THEATER BY SPECTRA7 and Design	61482-230674 United States of America	ORD	86/331128 08-Jul-2014	29-Dec-2015		Allowed
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Owner: Spectra7 Microsystems Ltd.
 Client: Spectra7 Microsystems Ltd.
 Agent:

Attorneys: JSG, SPH, JJW
 Client Ref:
 Agent Ref:

PATENT

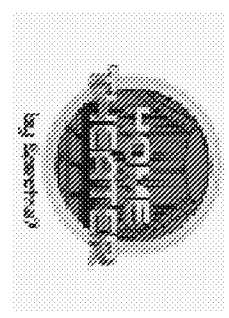
REEL: 038358 FRAME: 0738

Trademark List by Trademark

Trademark	Client-Matter Country	SubCase Case Type	Application Number Filing Date	Publication Number Publication Date	Registration Number Registration Date	Status Next Renewal
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Classes: 09 Int.

Images/Links:



230674

JTX	61482-224751	United States of America	ORD	85/906743 17-Apr-2013	17-Sep-2013	Allowed
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Owner: Spectra7 Microsystems Corp.
Client: Spectra7 Microsystems Ltd.

Agent: Spectra7 Microsystems Ltd.
Classes: 09 Int.

Images/Links:

MAGNIF EYETM ACTIVE	61482-229117	China (People's Republic)	ORD	7412705 21-May-2009		Filed
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Owner: REDMERE TECHNOLOGY LIMITED
Client: Spectra7 Microsystems Ltd.

Agent: Hogan Lovells International LLP
Classes: 42 Int.

Images/Links:

MAGNIF EYETM ACTIVE	61482-229118	China (People's Republic)	ORD	7412706 21-May-2009		Filed
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Owner: REDMERE TECHNOLOGY LIMITED
Client: Spectra7 Microsystems Ltd.

Agent: Hogan Lovells International LLP
Classes: 09 Int.

Images/Links:

Trademark	Client-Matter Country	SubCase Case Type	Application Number Filing Date	Publication Number Publication Date	Registration Number Registration Date	Status Next Renewal
MAGNIFEYE	61482-229105 Canada	ORD	132025500 10-Oct-2006	17-Oct-2007	743043 07-Jul-2009	Registered 07-Jul-2024
	Owner: Spectra7 Microsystems (Ireland) Limited Client: Spectra7 Microsystems Ltd. Agent: Classes: CA 1, CA 2				Attorneys: JSG, SPH, JJW Client Ref: Agent Ref:	
	Images/Links:					
MAGNIFEYE	61482-229111 European Community	ORD	5369608 09-Oct-2006	05-Mar-2007	5369608 31-Oct-2007	Registered 09-Oct-2016
	Owner: REDMERE TECHNOLOGY LTD. Client: Spectra7 Microsystems Ltd. Agent: FRKelly Classes: 09 Int., 16 Int.				Attorneys: JSG, SPH, JJW Client Ref: Agent Ref:	
	Images/Links:					
MAGNIFEYE	61482-229103 United States of America	PRIN ORD	77/017034 09-Oct-2006	10-Jun-2008	3518802 21-Oct-2008	Registered 21-Oct-2018
	Owner: Spectra7 Microsystems Corp. Client: Spectra7 Microsystems Ltd. Agent: Classes: 09 Int., 16 Int.				Attorneys: JSG, SPH, JJW Client Ref: Agent Ref:	
	Images/Links:					
MICROCHROMA	61482-PENDING3 United States of America	ORD				Proposed
	Owner: Spectra7 Microsystems Corp. Client: Spectra7 Microsystems Ltd. Agent: Classes: 09 Int.				Attorneys: JSG, SPH, JJW Client Ref: Agent Ref:	
	Images/Links:					
Mira	61482-224750 United States of America	ORD	85/906750 17-Apr-2013			Suspended
	Owner: Spectra7 Microsystems Corp. Client: Spectra7 Microsystems Ltd. Agent:				Attorneys: JSG, SPH, JJW Client Ref: Agent Ref:	

PATENT

REEL: 038358 FRAME: 0740

Trademark	Client-Matter Country	SubCase Case Type	Application Number Filing Date	Publication Number Publication Date	Registration Number Registration Date	Status Next Renewal
Images/Links: Classes: 09 Int.						
POCKETCONSOLE	61482-PENDING2 United States of America	ORD	7412708 21-May-2009	13-Aug-2013	7412708 14-Nov-2013	Proposed 13-Nov-2023
Owner: Spectra7 Microsystems Corp. Client: Spectra7 Microsystems Ltd. Agent: Classes: 09 Int. Images/Links:						
Images/Links:						
RED MERE and Design	61482-229113 China (People's Republic)	ORD	7412708 21-May-2009	13-Aug-2013	7412708 14-Nov-2013	Registered 13-Nov-2023
Owner: REDMERE TECHNOLOGY LIMITED Client: Spectra7 Microsystems Ltd. Agent: Hogan Lovells International LLP Classes: 09 Int. Images/Links:						
Images/Links:						
RED MERE and Design	61482-229114 China (People's Republic)	ORD	7412707 21-May-2009	06-Nov-2013	7412707 07-Feb-2014	Registered 06-Feb-2024
Owner: REDMERE TECHNOLOGY LIMITED Client: Spectra7 Microsystems Ltd. Agent: Hogan Lovells International LLP Classes: 42 Int. Images/Links:						
Images/Links:						
REDMERE	61482-229106 Canada	ORD	131390700 08-Sep-2006	12-Nov-2008	743207 09-Jul-2009	Registered 09-Jul-2024
Owner: Spectra7 Microsystems (Ireland) Limited Client: Spectra7 Microsystems Ltd. Agent: Classes: CA 1 Images/Links:						

Trademark	Client-Matter Country	SubCase Case Type	Application Number Filing Date	Publication Number Publication Date	Registration Number Registration Date	Status Next Renewal
REDMERE	61482-229112 European Community	ORD	5295035 05-Sep-2006	02-Apr-2007	5295035 31-Oct-2007	Registered 05-Sep-2016
	Owner: REDMERE TECHNOLOGY LTD. Client: Spectra7 Microsystems Ltd. Agent: FRKelly Classes: 09 Int., 16 Int.					
	Images/Links:					
REDMERE	61482-229104 United States of America	PRIN ORD	78/969994 08-Sep-2006	17-Jun-2008	3520704 21-Oct-2008	Registered 21-Oct-2018
	Owner: Spectra7 Microsystems Corp. Client: Spectra7 Microsystems Ltd. Agent: Classes: 09 Int., 16 Int.					
	Images/Links:					
RT-Tester	61482-231971 United States of America	ORD	86/438312 29-Oct-2014	31-Mar-2015		Allowed
	Owner: Spectra7 Microsystems Corp. Client: Spectra7 Microsystems Ltd. Agent: Classes: 09 Int.					
	Images/Links:					
Spectra7	61482-224749 United States of America	PRIN ORD	85/906639 17-Apr-2013	17-Sep-2013	4569429 15-Jul-2014	Registered 15-Jul-2024
	Owner: Spectra7 Microsystems Corp. Client: Spectra7 Microsystems Ltd. Agent: Classes: 09 Int.					
	Images/Links:					
SPECTRALINEAR	61482-PENDING1 United States of America	ORD				Proposed
	Owner: Spectra7 Microsystems Corp. Client: Spectra7 Microsystems Ltd. Agent:					
	Attorneys: JSG, SPH, JJW Client Ref: Agent Ref:					

PATENT

REEL: 038358 FRAME: 0742

Trademark	Client-Matter Country	SubCase Case Type	Application Number Filing Date	Publication Number Publication Date	Registration Number Registration Date	Status Next Renewal
Images/Links:						
SpectraTune	61482-224753 United States of America	ORD	85/906768 17-Apr-2013	17-Sep-2013		Allowed
Owner: Spectra7 Microsystems Corp.						
Client: Spectra7 Microsystems Ltd.						
Agent:						
Classes: 09 Int.						
Images/Links:						
VERIF EYE™	61482-229115 China (People's Republic)	ORD	7412703 21-May-2009			Filed
Owner: REDMERE TECHNOLOGY LIMITED						
Client: Spectra7 Microsystems Ltd.						
Agent: Hogan Lovells International LLP						
Classes: 42 Int.						
Images/Links:						
VR-CONTROL	61482-PENDING6 United States of America	ORD				Proposed
Owner: Spectra7 Microsystems Corp.						
Client: Spectra7 Microsystems Ltd.						
Agent:						
Classes: 09 Int.						
Images/Links:						
VR-JUNCTION	61482-PENDING5 United States of America	ORD				Proposed
Owner: Spectra7 Microsystems Corp.						
Client: Spectra7 Microsystems Ltd.						
Agent:						
Classes: 09 Int.						
Images/Links:						

Trademark	Client-Matter Country	SubCase Case Type	Application Number Filing Date	Publication Number Publication Date	Registration Number Registration Date	Status Next Renewal
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VR-QUICKRELEASE	61482-PENDING4 United States of America	ORD				Proposed
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Owner: Spectra7 Microsystems Corp.

Client: Spectra7 Microsystems Ltd.

Agent:

Classes: 09 Int.

Attorneys: JSQ, SPH, JJW
Client Ref:
Agent Ref:

Images/Links:

Sort Order: by Trademark

Report Format: Comprehensive

Print Goods?: No

Print Remarks?: No

Print Images/Links?: Yes

Print Designated Countries?: No

Print Prior Firm Ref No.?: No

Filing Date:

From:

To:

Client-Matter:

Status Code: Active

Trademark:

Case Type(s):

Status(es):

Client: 61482

Agent:

Attorney:

Owner:

Country:

Area:

Keyword:

Client Ref.:

EXHIBIT D

Mask Works

None.