

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
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ETAS ID: TM439815

SUBMISSION TYPE:	RESUBMISSION
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST
RESUBMIT DOCUMENT ID:	900416885

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
MIDCAP FINANCIAL TRUST, AS AGENT		08/09/2017	STATUTORY TRUST: DELAWARE

RECEIVING PARTY DATA

Name:	THE SPECTRANETICS CORPORATION
Street Address:	9965 Federal Drive
City:	Colorado Springs
State/Country:	COLORADO
Postal Code:	80921
Entity Type:	Corporation: DELAWARE

PROPERTY NUMBERS Total: 42

Property Type	Number	Word Mark
Registration Number:	1723546	CVX-300
Registration Number:	1741106	SPECTRANETICS
Registration Number:	1717853	SPECTRANETICS
Registration Number:	1823660	ELCA
Registration Number:	3562200	LLD EZ
Registration Number:	3737800	SPNC
Registration Number:	3768583	VISISHEATH
Registration Number:	3832560	TORQMAX
Registration Number:	3782516	TURBO-TANDEM
Registration Number:	2922727	LLD
Registration Number:	3072724	SLS
Registration Number:	2928706	QUICK-CROSS
Registration Number:	3367148	TURBO ELITE
Registration Number:	4243271	GLIDELIGHT
Serial Number:	85687806	SPECTRANETICS
Serial Number:	85687831	
Serial Number:	85687837	ALWAYS REACHING FARTHER
Registration Number:	4548605	QUICK-CROSS CAPTURE

TRADEMARK

Property Type	Number	Word Mark
Registration Number:	4522960	QUICK-ACCESS
Registration Number:	4638019	
Registration Number:	4708930	SPECTRANETICS
Registration Number:	4708931	SPECTRANETICS
Registration Number:	4673064	SIGHTRAIL
Registration Number:	4673065	TIGHTRAIL
Registration Number:	4729002	TIGHTRAIL MINI
Registration Number:	4814469	TURBO-TAPE
Registration Number:	4712538	TURBO-BOOSTER
Serial Number:	86414400	SPNC
Serial Number:	86441590	TURBO ELITE BTK
Serial Number:	86541303	NETICS MEDICAL
Registration Number:	4966361	TURBO-POWER
Serial Number:	86721317	BRIDGE TO SURGERY
Registration Number:	5110715	BRIDGE
Registration Number:	4993727	STELLAREX
Serial Number:	86278131	ENDURACOAT
Serial Number:	86926277	NEXCIMER
Serial Number:	87067844	ALWAYS REACHING FARTHER
Serial Number:	87067850	
Serial Number:	87067855	SPECTRANETICS
Serial Number:	87353486	THOR
Serial Number:	87353488	TURBO-THOR
Serial Number:	87353491	TURBO-HAMMER

CORRESPONDENCE DATA

Fax Number: 6127661600

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: 6127667000

Email: tmmpls@faegrebd.com

Correspondent Name: Brian Lefort/Sarah House

Address Line 1: 90 South Seventh Street

Address Line 2: 2200 Wells Fargo Center

Address Line 4: Minneapolis, MINNESOTA 55402

ATTORNEY DOCKET NUMBER: 487145.569

NAME OF SUBMITTER: Sarah M. House

SIGNATURE: /Sarah M House/

DATE SIGNED: 08/18/2017

Total Attachments: 39

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**RELEASE OF SECURITY INTEREST
IN INTELLECTUAL PROPERTY**

This Release of Security Interest in Intellectual Property, dated as of August 9, 2017 (this “**IP Release**”), is made by **MidCap Financial Trust**, a Delaware statutory trust as agent (“**Agent**”) for the Lenders, in favor of **The Spectranetics Corporation**, a Delaware corporation (“**Spectranetics**”) and **AngioScore Inc.**, a Delaware corporation (“**Angioscore**”, and Angioscore, together with Spectranetics, collectively, the “**Grantors**”) as follows:

WHEREAS, pursuant to that certain Intellectual Property Security Agreement, dated as of December 7, 2015 (as the same may have been amended, modified, restated, replaced or supplemented from time to time, the “**IP Security Agreement**”; capitalized terms used herein have the definition provided for in the IP Security Agreement), (a) recorded with the United States Patent and Trademark Office on December 11, 2015 at Reel/Frame No. 5687/0915, on December 11, 2015 at Reel/Frame No. 037269/0506, on December 11, 2015 at Reel/Frame No. 5687/0304, on December 11, 2015 at Reel/Frame No. 037273/0822, on June 13, 2017 at Reel/Frame No. 042787/0001, on June 23, 2017 at Reel/Frame No. 042781/0161, and on June 23, 2017 at Reel/Frame No. 6082/0893; and (b) recorded with the United States Copyright Office on June 21, 2017; the Grantors granted to Agent, on behalf of the Lenders, a security interest in and to all of its right, title and interest in each Grantor’s Intellectual Property Collateral, including those listed Schedules A through C thereto;

WHEREAS, the Grantors have requested that Agent release its security interest in and to the Copyrights as more particularly described on Schedule A attached hereto (the “**Released Copyrights**”);

WHEREAS, the Grantors have requested that Agent release its security interest in and to the Patents as more particularly described on Schedule B attached hereto (the “**Released Patents**”);

WHEREAS, the Grantors have requested that Agent release its security interest in and to the Trademarks as more particularly described on Schedule C attached hereto (the “**Released Trademarks**”, and together with the Released Copyrights and the Released Patents, the “**Released IP Collateral**”);

NOW, THEREFORE, Agent, without recourse, representation or warranty and at Grantors’ sole cost and expense, hereby releases all of its right, title and interest in and to the Released IP Collateral.


[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, Agent has caused this IP Release to be duly executed and delivered by its duly authorized officer as of the date first written above.

MIDCAP FUNDING IV TRUST, as Agent

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

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

By: 
Name: Maurice Amselem
Title: Authorized Signatory

SCHEDULE A
Released Copyrights
[See Attached]

EXHIBIT A

Copyrights

COPYRIGHTS OWNED BY THE SPECTRANETICS CORPORATION

Registration Number / Date: TXu001723730 / 2010-10-20

Application Title: Spectranetics Laser Radiation and Hazard Manual for the Safe Operation and Service of the CVX-300 Excimer Laser System.

Title: Spectranetics Laser Radiation and Hazard Manual for the Safe Operation and Service of the CVX-300 Excimer Laser System.

Description: Electronic Deposit.

Copyright Claimant: The Spectranetics Corporation. Address: 9965 Federal Drive, Colorado Springs, CO, 80921, United States.

Date of Creation: 2010

Authorship on Application: The Spectranetics Corporation, employer for hire; Domicile: United States; Citizenship: United States. Authorship: text, photograph(s), compilation, editing, artwork.

Rights and Permissions: Roger Wertheimer, Spectranetics, 9965 Federal Drive, Colorado Springs, CO, 80921, United States, (719) 633-8333, roger.wertheimer@spnc.com

SCHEDULE B

Released Patents

[See Attached]

EXHIBIT B

Patents

UNITED STATES PATENTS

UNITED STATES ISSUED PATENTS – ASSIGNED TO THE SPECTRANETICS CORPORATION

<u>Title</u>	<u>Patent Number</u>	<u>Issue Date</u>
THROMBECTOMY AND SOFT DEBRIS REMOVAL DEVICE	7,959,608	6/14/2011
THROMBECTOMY AND SOFT DEBRIS REMOVAL DEVICE	7,666,161	2/23/2010
THROMBECTOMY AND SOFT DEBRIS REMOVAL DEVICE	8,920,402	12/30/2014
THROMBECTOMY AND SOFT DEBRIS REMOVAL DEVICE	7,976,528	7/12/2011
REENTRY CATHETER AND METHOD THEREOF	8,956,376	2/17/2015
REENTRY CATHETER AND METHOD THEREOF	8,998,936	4/7/2015
SHAPEABLE INTRALUMINAL DEVICE AND METHOD THEREFOR	7,951,094	5/31/2011
SHAPEABLE INTRALUMINAL DEVICE AND METHOD THEREFOR	7,303,533	12/4/2007
PHOTOTHERAPY DEVICE AND METHOD	5,976,124	11/2/1999
EXPANDABLE LASER CATHETER	8,465,480	6/18/2013
RADIO FREQUENCY GUIDE WIRE ASSEMBLY WITH OPTICAL COHERENCE REFLECTOMETRY GUIDANCE	7,563,262	7/21/2009
ECCENTRIC BALLOON LASER CATHETER	8,702,773	4/22/2014
TAPERED LIQUID LIGHT GUIDE	8,979,828	3/17/2015
RETRACTABLE SEPARATING SYSTEM AND METHODS	8,961,551	2/24/2015
LASER-ASSISTED GUIDEWIRE HAVING A VARIABLE STIFFNESS SHAFT	8,414,568	4/9/2013

<u>Title</u>	<u>Patent Number</u>	<u>Issue Date</u>
LASER-ASSISTED GUIDEWIRE HAVING A VARIABLE STIFFNESS SHAFT	8,758,333	6/24/2014
ENDOCARDIAL LEAD REMOVING APPARATUS	8,097,012	1/17/2012
ENDOCARDIAL LEAD REMOVING APPARATUS	7,993,359	8/9/2011
TISSUE SEPARATING SYSTEMS AND METHODS	9,028,520	5/12/2015
LEAD LOCKING DEVICE AND METHOD	6,167,315	12/26/2000
LEAD LOCKING DEVICE AND METHOD	6,324,434	11/27/2001
LEAD LOCKING DEVICE AND METHOD	6,772,014	8/3/2004
LEAD LOCKING DEVICE AND METHOD	7,499,756	3/3/2009
LEAD LOCKING DEVICE AND METHOD	8,428,747	4/23/2013
MULTI-PORT LIGHT DELIVERY CATHETER AND METHODS FOR THE USE THEREOF	8,104,483	1/31/2012
LOW-LOSS POLARIZED LIGHT DIVERSION	8,059,274	11/15/2011
PROXIMAL COUPLER FOR OPTICAL FIBERS	7,050,692	5/23/2006
LASER CATHETER CALIBRATOR	8,100,893	1/24/2012
CATHETER FOR DELIVERY OF ELECTRIC ENERGY AND A PROCESS FOR MANUFACTURING SAME	5,824,026	10/20/1998
CATHETER FOR DELIVERY OF ELECTRIC ENERGY AND A PROCESS FOR MANUFACTURING SAME	5,836,946	11/17/1998
ENDOCARDIAL LEAD CUTTING APPARATUS	7,651,503	1/26/2010
APPARATUS AND METHODS FOR DIRECTIONAL DELIVERY OF LASER ENERGY	7,572,254	8/11/2009
CARDIOVASCULAR IMAGING SYSTEM	8,545,488	10/1/2013
APPARATUS AND METHODS FOR DIRECTIONAL DELIVERY OF LASER ENERGY	7,846,153	12/7/2010
LIGHT DELIVERY CATHETER AND METHODS FOR THE USE THEREOF	6,290,668	9/18/2001
LOCAL DELIVERY OF WATER-SOLUBLE OR WATER-INSOLUBLE THERAPEUTIC AGENTS TO THE SURFACE OF BODY LUMENS	9,034,362	5/19/2015
LOCAL DELIVERY OF WATER-SOLUBLE OR WATER-	8,491,925	7/23/2013

<u>Title</u>	<u>Patent Number</u>	<u>Issue Date</u>
INSOLUBLE THERAPEUTIC AGENTS TO THE SURFACE OF BODY LUMENS		
LOCAL DELIVERY OF WATER-SOLUBLE OR WATER-INSOLUBLE THERAPEUTIC AGENTS TO THE SURFACE OF BODY LUMENS	8,114,429	2/14/2012
LOCAL DELIVERY OF WATER-SOLUBLE OR WATER-INSOLUBLE THERAPEUTIC AGENTS TO THE SURFACE OF BODY LUMENS	8,563,023	10/22/2013
LOCAL DELIVERY OF WATER-SOLUBLE OR WATER-INSOLUBLE THERAPEUTIC AGENTS TO THE SURFACE OF BODY LUMENS	8,128,951	5/6/2012
LOCAL DELIVERY OF WATER-SOLUBLE OR WATER-INSOLUBLE THERAPEUTIC AGENTS TO THE SURFACE OF BODY LUMENS	9,198,968	12/1/2015
LOCAL DELIVERY OF WATER-SOLUBLE OR WATER-INSOLUBLE THERAPEUTIC AGENTS TO THE SURFACE OF BODY LUMENS	8,673,332	3/18/2014
LOCAL DELIVERY OF WATER-SOLUBLE OR WATER-INSOLUBLE THERAPEUTIC AGENTS TO THE SURFACE OF BODY LUMENS	8,257,722	9/4/2012
LOCAL DELIVERY OF WATER-SOLUBLE OR WATER-INSOLUBLE THERAPEUTIC AGENTS TO THE SURFACE OF BODY LUMENS	8,734,825	5/27/2014
LOCAL DELIVERY OF WATER-SOLUBLE OR WATER-INSOLUBLE THERAPEUTIC AGENTS TO THE SURFACE OF BODY LUMENS	9,132,211	9/15/2015
DEFLECTING CATHETER	6,951,554	10/4/2005
CATHETER HANDLE FOR CONTROLLING THE ADVANCEMENT OF A GUIDE WIRE	6,752,800	6/22/2004
CATHETER FOR CONTROLLING THE ADVANCEMENT OF A GUIDE WIRE	6,394,976	5/28/2002
EXPANDABLE LASER CATHETER	6,106,515	8/22/2000
EXPANDABLE LASER CATHETER	6,485,485	11/26/2002
EXPANDABLE LASER CATHETER	7,288,087	10/30/2007
EXPANDABLE LASER CATHETER	8,182,474	5/22/2012
NEEDLE AND GUIDEWIRE HOLDER	9,162,038	10/20/2015

<u>Title</u>	<u>Patent Number</u>	<u>Issue Date</u>
SYSTEMS AND METHODS FOR STEERING A CATHETER THROUGH BODY TISSUE	6,663,621	12/16/2003
SYSTEMS AND METHODS FOR GUIDING A MEDICAL INSTRUMENT THROUGH A BODY	6,048,349	4/11/2000
SYSTEMS AND METHODS FOR GUIDING A MEDICAL INSTRUMENT THROUGH A BODY	6,463,313	10/8/2002
SYSTEMS AND METHODS FOR GUIDING A MEDICAL INSTRUMENT THROUGH A BODY	6,970,732	11/29/2005
SYSTEMS AND METHODS FOR GUIDING A MEDICAL INSTRUMENT THROUGH A BODY	6,063,093	5/16/2000
RADIO FREQUENCY GUIDE WIRE ASSEMBLY WITH OPTICAL COHERENCE REFLECTOMETRY GUIDANCE	6,852,109	2/8/2005
SYSTEM AND METHOD FOR CONTROLLING TISSUE ABLATION	6,228,076	5/08/2001
INTRA-VASCULAR DEVICE WITH PRESSURE DETECTION CAPABILITIES USING PRESSURE SENSITIVE MATERIAL	9,066,742	6/30/2015
ASSEMBLIES AND METHODS FOR ADVANCING A GUIDE WIRE THROUGH BODY TISSUE	5,951,482	9/14/1999
GUIDE WIRE ASSEMBLY	6,193,676	2/27/2001
METHOD AND APPARATUS FOR GUIDING A GUIDE WIRE	6,842,639	1/11/2005
RADIOPAQUE TAPE	D742,521	11/3/2015
RADIOPAQUE TAPE	D740,946	10/13/2015
RADIOPAQUE TAPE	D742,520	11/3/2015
RADIOPAQUE TAPE	D742,522	11/3/2015
RAPID EXCHANGE BIAS LASER CATHETER DESIGN	8,628,519	1/14/2014
EXCIMER LASER ANGIOPLASTY SYSTEM	5,989,243	11/23/1999

UNITED STATES ISSUED PATENTS – ASSIGNED TO ANGIOSCORE INC.

<u>Title</u>	<u>Patent Number</u>	<u>Issue Date</u>
APPARATUS AND METHODS FOR TREATING HARDENED VASCULAR LESIONS	8,454,636	6/4/2013
APPARATUS AND METHODS FOR TREATING HARDENED VASCULAR LESIONS	8,080,026	12/20/2011
APPARATUS AND METHODS FOR TREATING HARDENED VASCULAR LESIONS	7,686,824	3/30/2010
APPARATUS AND METHODS FOR TREATING HARDENED VASCULAR LESIONS	7,955,350	6/7/2011
APPARATUS AND METHODS FOR TREATING HARDENED VASCULAR LESIONS	8,721,667	5/13/2014
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	9,011,896	4/21/2015
METHODS AND SYSTEMS FOR DELIVERING SUBSTANCES INTO LUMINAL WALLS	8,864,743	10/21/2014
METHOD AND SYSTEM FOR TREATING VALVE STENOSIS	8,632,559	1/21/2014
BALLOON CATHETER WITH NON-DEPLOYABLE STENT	7,931,663	4/26/2011
FACILITATED BALLOON CATHETER EXCHANGE	7,022,104	4/4/2006
FACILITATED BALLOON CATHETER EXCHANGE	7,513,886	4/7/2009
BALLOON CATHETER WITH NON-DEPLOYABLE STENT	7,691,119	4/6/2010
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	9,173,977	11/3/2015
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	9,078,951	7/14/2015
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	9,072,812	7/7/2015
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	9,101,684	8/11/2015

**UNITED STATES PATENT APPLICATIONS AND ADDITIONS
ASSIGNED TO THE SPECTRANETICS CORPORATION**

<u>Title</u>	<u>Serial Number</u>	<u>Filing Date</u>
SYSTEM AND METHOD OF ABLATIVE CUTTING AND PULSED VACUUM ASPIRATION	13/800,651	3/13/2013
ALARM FOR LEAD INSULATION ABNORMALITY	13/799,894	3/13/2013
RETRACTABLE BLADE FOR LEAD REMOVAL DEVICE	13/834,405	3/15/2013
LASER CATHETER WITH HELICAL INTERNAL LUMEN	13/800,675	3/13/2013
ASSISTED CUTTING BALLOON	13/800,214	3/13/2013
DEVICE AND METHOD OF ABLATIVE CUTTING WITH HELICAL TIP	13/800,700	3/13/2013
TISSUE SLITTING METHOD AND SYSTEMS	13/828,231	3/14/2013
WIRE CENTERING SHEATH AND METHOD	13/798,985	3/13/2013
EXPANDABLE MEMBER FOR PERFORATION OCCLUSION	13/801,659	3/13/2013
INTELLIGENT CATHETER	13/804,812	3/14/2013
STABILIZATION DEVICE ASSISTED LEAD TIP REMOVAL	13/801,267	3/13/2013
ANGULAR OPTICAL FIBER CATHETER	13/800,864	3/13/2013
CATHETER MOVEMENT CONTROL	13/799,664	3/13/2013
LASER ABLATION CATHETER	13/800,728	3/13/2013
SMART MULTIPLEXED MEDICAL LASER SYSTEM	13/804,923	3/14/2013
THREADED LEAD EXTRACTION DEVICE	13/828,491	3/14/2013
LEAD REMOVAL SLEEVE	13/828,638	3/14/2013
EXPANDABLE LEAD JACKET	13/828,536	3/14/2013
EXPANDABLE LASER CATHETER	13/898,093	5/20/2013
TISSUE SLITTING METHODS AND SYSTEMS	13/828,310	3/14/2013
TISSUE SLITTING METHODS AND SYSTEMS	13/828,383	3/14/2013
TISSUE SLITTING METHODS AND SYSTEMS	13/828,441	3/14/2013

<u>Title</u>	<u>Serial Number</u>	<u>Filing Date</u>
CONTROLLER TO SELECT OPTICAL CHANNEL PARAMETERS IN A CATHETER	13/826,053	3/14/2013
NEEDLE AND GUIDEWIRE HOLDER	14/857,245	9/17/2015
DEVICE AND METHOD FOR CAPTURING GUIDEWIRES	13/390,146	2/13/2012
OFFSET CATHETER	12/333,427	12/12/2008
LIQUID LIGHT-GUIDE CATHETER WITH OPTICALLY DIVERGING TIP	12/254,254	10/20/2008
INTRA-VASCULAR DEVICE WITH PRESSURE DETECTION CAPABILITIES USING PRESSURE SENSITIVE MATERIAL	11/937,583	11/9/2007
LASER-ASSISTED GUIDEWIRE HAVING A VARIABLE STIFFNESS SHAFT	13/737,573	1/9/2013
SNARING SYSTEMS AND METHODS	12/878,648	9/9/2010
LIQUID LIGHT GUIDE CATHETER HAVING BIOCOMPATIBLE LIQUID LIGHT GUIDE MEDIUM	11/923,488	10/24/2007
BIASING LASER CATHETER: MONORAIL DESIGN	14/152,334	1/10/2014
TUNABLE NANOPARTICLE TAGS TO ENHANCE TISSUE RECOGNITION	11/966,214	12/28/2007
REENTRY CATHETER AND METHOD THEREOF	14/128,050	6/29/2012
CARDIOVASCULAR IMAGING SYSTEM	13/968,993	8/16/2013
DISTAL END SUPPORTED TISSUE SLITTING APPARATUS	14/192,445	2/27/2014
RADIOPAQUE TAPE	29/513,414	12/20/2014
MEDICAL DEVICE FOR REMOVING AN IMPLANTED OBJECT	14/627,851	2/20/2015
MEDICAL DEVICE FOR REMOVING AN IMPLANTED OBJECT	14/627,950	2/20/2015
MULTIPLE CONFIGURATION SURGICAL CUTTING DEVICE	14/635,742	3/2/2015
AN ARCH SHAPED LASER CATHETER	14/438,176	10/24/2013
LOCAL DELIVERY OF WATER-SOLUBLE OR WATER-INSOLUBLE THERAPEUTIC AGENTS TO THE SURFACE OF BODY LUMENS	14/852790	9/14/2015

<u>Title</u>	<u>Serial Number</u>	<u>Filing Date</u>
LOCAL DELIVERY OF WATER-SOLUBLE OR WATER-INSOLUBLE THERAPEUTIC AGENTS TO THE SURFACE OF BODY LUMENS	14/935754	11/9/2015
LOCAL DELIVERY OF WATER-SOLUBLE OR WATER-INSOLUBLE THERAPEUTIC AGENTS TO THE SURFACE OF BODY LUMENS	14/695114	4/24/2015
LOCAL DELIVERY OF WATER-SOLUBLE OR WATER-INSOLUBLE THERAPEUTIC AGENTS TO THE SURFACE OF BODY LUMENS	14/032336	9/20/2013
POST-PROCESSING OF A MEDICAL DEVICE TO CONTROL MORPHOLOGY AND MECHANICAL PROPERTIES	13/926515	6/25/2013
COATINGS FOR MEDICAL DEVICES	14/162900	1/24/2014
RAPID EXCHANGE BIAS LASER CATHETER DESIGN	14/137,424	1/14/2014
DILATOR SHEATH SET	14/195,692	3/3/2014
SHEATH	29/483,813	3/3/2014
SHEATH SET	29/483,815	3/3/2014
MATERIAL CAPTURING GUIDEWIRE	13/801,149	3/13/2013
ECCENTRIC BALLOON LASER CATHETER	14/175,359	2/7/2014
ENDOCARDIAL LEAD REMOVING APPARATUS	11/484,825	8/9/2011
ENDOCARDIAL LEAD CUTTING APPARATUS	14/857,621	9/17/2015
SURGICAL INSTRUMENT INCLUDING AN INWARDLY DEFLECTING CUTTING TIP FOR REMOVING AN IMPLANTED OBJECT	14/577,976	12/19/2014
COLLAPSING COIL COUPLING FOR LEAD EXTENSION AND EXTRACTION	62/098,214	12/30/2014
WIRE HOOK COUPLING FOR LEAD EXTENSION AND EXTRACTION	62/098,209	12/30/2014
MULTI-LOOP COUPLING FOR LEAD EXTENSION AND EXTRACTION	62/098,208	12/30/2014
LASER-INDUCED SHOCK WAVES FOR THE TREATMENT OF VASCULAR CONDITIONS	62/098,242	12/30/2014

<u>Title</u>	<u>Serial Number</u>	<u>Filing Date</u>
THROMBECTOMY AND SOFT DEBRIS REMOVAL DEVICE	14/562,014	12/5/2014
RETRACTABLE SEPARATING SYSTEMS AND METHODS	14/589,688	1/5/2015
TAPERED LIQUID LIGHT GUIDE	14/613,949	2/4/2015
REENTRY CATHETER AND METHOD THEREOF	14/631,592	2/25/2015
MEDICAL DEVICE HANDLE	29/519,239	3/3/2015
MEDICAL DEVICE HANDLE	29/519,258	3/3/2015
MATERIAL REMOVAL CATHETER HAVING AN EXPANDABLE DISTAL END	14/700,550	4/30/2015
TISSUE SEPARATING SYSTEMS AND METHODS	14/682,779	4/9/2015
MATERIAL CAPTURING GUIDEWIRE	14/686,424	4/14/2015
SEGMENTED BALLOON LASER ABLATION CATHETER	14/700,556	4/30/2015
REMOTE CONTROL SWITCH FOR A LASER SYSTEM	14/700,576	4/30/2015
INTRA-VASCULAR DEVICE WITH PRESSURE DETECTION CAPABILITIES USING PRESSURE SENSITIVE MATERIAL	14/714,925	5/18/2015
SYSTEM AND METHOD FOR COORDINATED LASER DELIVERY AND IMAGING	14/723,956	5/28/2015
METHODS FOR TREATING VASCULAR STENOSES INCLUDING LASER ATHERECTOMY AND DRUG DELIVERY VIA DRUG-COATED BALLOONS	62/209,691	8/25/2015
SYSTEM AND METHOD OF ABLATIVE CUTTING AND VACUUM ASPIRATION THROUGH PRIMARY ORIFICE AND AUXILIARY SIDE PORT	14/725,766	5/29/2015
SURGICAL INSTRUMENT FOR REMOVING AN IMPLANTED OBJECT	14/725,781	5/29/2015
TERAHERTZ SCANNING SYSTEM FOR AN INTRAVASCULAR SPACE	14/728,168	6/2/2015
CONVERTIBLE OPTICAL AND PRESSURE WAVE ABLATION SYSTEM AND METHOD	14/735,946	6/10/2015
MEDICAL DEVICE HANDLE	29/532,214	7/2/2015

<u>Title</u>	<u>Serial Number</u>	<u>Filing Date</u>
TEMPORARY OCCLUSION BALLOON DEVICES AND METHODS FOR PREVENTING BLOOD FLOW THROUGH A VASCULAR PERFORATION	62/203,711	8/11/2015
LASER ENERGY DELIVERY DEVICES INCLUDING LASER TRANSMISSION DETECTION SYSTEMS AND METHODS	62/199,431	7/31/2015
MEDICAL DEVICE FOR REMOVING AN IMPLANTED OBJECT USING LASER CUT HYPOTUBES	62/211,151	8/28/2015
SURGICAL INSTRUMENT FOR REMOVING AN IMPLANTED OBJECT	14/771,775	3/13/2014
LASER-INDUCED SHOCK WAVES EMITTING CATHETER SHEATH	62/212,242	8/31/2015
TEMPORARY OCCLUSION BALLOON DEVICES AND METHODS FOR PREVENTING BLOOD FLOW-THROUGH A VASCULAR PERFORATION	62/212,025	8/31/2015
TEMPORARY OCCLUSION BALLOON DEVICES AND METHODS FOR PREVENTING BLOOD FLOW THROUGH A VASCULAR PERFORATION	62/212,023	8/31/2015
ELECTRODEPOSITION COATING FOR MEDICAL DEVICES	14/869,331	9/29/2015
TEMPORARY OCCLUSION BALLOON DEVICES AND METHODS FOR PREVENTING BLOOD FLOW THROUGH A VASCULAR PERFORATION	62/234,376	9/29/2015
SUPPORT CATHETER AND GUIDEWIRE KIT FOR CROSSING A VASCULAR OCCLUSION	62/233,121	9/25/2015
ENDOCARDIAL LEAD CUTTING APPARATUS	14/857,621	9/17/2015
DIRECTIONAL LASER-INDUCED SHOCK WAVES FOR THE TREATMENT OF VASCULAR CONDITIONS	62/232,318	9/24/2015
TEMPORARY OCCULUSION BALLOON DEVICES AND HEMOSTATIC COMPOSITIONS FOR PREVENTING BLOOD FLOW THROUGH A VASCULAR PERFORATION	62/233,869	9/28/2015
LEAD REMOVAL SLEEVE	14/877,683	10/7/2015
LASER ENERGY DELIVERY DEVICES INCLUDING LASER TRANSMISSION DETECTION SYSTEMS AND METHODS	14/925,348	10/28/2015
LASER-INDUCED PRESSURE WAVES EMITTING CATHETER SHEATH	62/248,753	10/30/2015

<u>Title</u>	<u>Serial Number</u>	<u>Filing Date</u>
LASER-INDUCED PRESSURE WAVES FOR THE TREATMENT OF VASCULAR CONDITIONS USING LIGHT ABSORBING MATERIAL	62/248,875	10/30/2015
LASER-INDUCED PRESSURE WAVES FOR THE TREATMENT OF VASCULAR CONDITIONS	62/248,913	10/30/2015
LASER-INDUCED PRESSURE WAVE EMITTING SHEATH AND ATTENUATING STRUCTURE	62/248,936	10/30/2015
LASER-INDUCED PRESSURE WAVES EMANATING FROM BALLOON CATHETER WITH ATTENUATING STRUCTURE	62/257,404	11/19/2015

**UNITED STATES PATENT APPLICATIONS AND ADDITIONS
ASSIGNED TO ANGIOSCORE, INC.**

<u>Title</u>	<u>Serial Number</u>	<u>Filing Date</u>
BALLOON CATHETER WITH NON-DEPLOYABLE STENT HAVING IMPROVED STABILITY	14/048,955	10/8/2013
APPARATUS AND METHODS FOR TREATING HARDENED VASCULAR LESIONS	14/275,264	5/12/2014
METHODS AND SYSTEMS FOR DELIVERING SUBSTANCES INTO LUMINAL WALLS	11/411,635	4/26/2006
METHODS AND SYSTEMS FOR DELIVERING SUBSTANCES INTO LUMINAL WALLS	13/842,080	3/15/2013
METHOD AND SYSTEM FOR TREATING VALVE STENOSIS	13/894,613	5/15/2013
METHOD AND SYSTEM FOR TREATING VALVE STENOSIS	14/010,754	8/27/2013
BALLOON CATHETER WITH NON-DEPLOYABLE STENT	12/694,163	1/26/2010
BALLOON CATHETER WITH NON-DEPLOYABLE STENT	13/022,489	2/7/2011
BALLOON CATHETER WITH NON-DEPLOYABLE STENT	13/489,250	6/5/2011
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	14/731,715	6/5/2015

<u>Title</u>	<u>Serial Number</u>	<u>Filing Date</u>
TRIGGERED RELEASE MECHANISM TO IMPROVE EFFICACY OF DRUG	62/239,121	10/8/2015
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	14/877,284	10/7/2015
BALLOON ANGIOPLASTY CATHETER COATING TO ENCOURAGE VESSEL REPAIR AND FURTHER REDUCE RESTENOSIS	62/256,845	11/18/2015

LICENSES

The Company is party to license agreements under which the Company licenses patents covering certain aspects of the Company's products. For example, the Company has an amended vascular laser angioplasty catheter license agreement with SurModics, Inc., under which SurModics has granted the Company a worldwide non-exclusive license to use a lubricious coating that is applied to the Company's products using certain SurModics patents. The Company pays SurModics royalties as a specified percentage of net sales of products using its patents, subject to a quarterly minimum royalty. The license agreement expires on the later of the expiration of the last licensed patent or the fifteenth anniversary of the date a licensed product is first sold unless terminated earlier (1) by either party if the other party is involved with insolvency, dissolution or bankruptcy proceedings, (2) by the Company upon 90 days' advance written notice, or (3) by SurModics upon 60 days' advance written notice if the Company has failed to perform its obligations under the agreement and has not cured such breach during such 60-day period, or if the royalties the Company pays SurModics are not greater than specified levels. In 2014, the Company incurred royalties of approximately \$1.0 million to SurModics under this license agreement.

In December 2009, the Company entered into a license agreement with Peter Rentrop, M.D. As part of the agreement, the Company received a worldwide, exclusive license to certain patents and patent applications owned by Dr. Rentrop, which, in general, apply to laser catheters with a tip diameter less than 1 millimeter. The Company pays Dr. Rentrop royalties of a specified percentage of net sales of products using his patents subject to a quarterly minimum royalty. The license agreement expires in January 2020, unless terminated earlier in accordance with its terms. In 2014, the Company incurred royalties of approximately \$1.5 million to Dr. Rentrop under this license agreement.

In March 2010, AngioScore entered into a development and license agreement with InnoRa GmbH, Ulrich Speck and Bruno Scheller. As part of the agreement, AngioScore received an exclusive license to certain InnoRa intellectual property related to drug coatings of certain balloon catheters in the field of the treatment of coronary artery disease and peripheral arterial disease, and AngioScore obtained ownership of any new technology developed under the agreement. AngioScore pays InnoRa royalties of a specified percentage of net sales of products developed under the agreement. The exclusive rights granted by InnoRa are subject to AngioScore meeting certain milestones. If AngioScore does not satisfy the milestones, then the exclusive license rights will convert to a non-exclusive license, and AngioScore will license certain new technology developed under the agreement to InnoRa. In 2014, AngioScore did not incur royalties under this license agreement.

METHOD AND SYSTEM FOR TREATING VALVE STENOSIS	8,632,559	1/21/2014
APPARATUS AND METHODS FOR TREATING HARDENED VASCULAR LESIONS	8,721,667	5/13/2014
METHODS AND SYSTEMS FOR DELIVERING SUBSTANCES INTO LUMINAL WALLS	8,864,743	10/21/2014
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	9,011,896	4/21/2015
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	9,072,812	7/7/2015
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	9,078,951	7/14/2015
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	9,101,684	8/11/2015
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	9,173,977	11/3/2015
METHOD AND SYSTEM FOR TREATING VALVE STENOSIS	9,351,756	5/31/2016
METHOD AND SYSTEM FOR TREATING VALVE STENOSIS	9,364,254	6/14/2016
BALLOON CATHETER WITH NON-DEPLOYABLE STENT	9,375,328	6/28/2016
METHODS AND SYSTEMS FOR DELIVERING SUBSTANCES INTO LUMINAL WALLS	9,586,031	3/7/2017

**UNITED STATES PATENT APPLICATIONS
ASSIGNED TO THE SPECTRANETICS CORPORATION**

<u>Title</u>	<u>Serial Number</u>	<u>Filing Date</u>
ENDOCARDIAL LEAD CUTTING APPARATUS	11/187,553	1/22/2005
LIQUID LIGHT GUIDE CATHETER HAVING BIOCOMPATIBLE LIQUID LIGHT GUIDE MEDIUM	11/923,488	10/24/2007

TUNABLE NANOPARTICLE TAGS TO ENHANCE TISSUE RECOGNITION	11/966,214	12/28/2007
HYPOTUBE BASED SUPPORT CATHETER	13/390,140	12/12/2011
DEVICE AND METHOD FOR CAPTURING GUIDEWIRES	13/390,146	12/12/2011
ENDOCARDIAL LEAD REMOVING APPARATUS	13/333,783	12/21/2011
REENTRY CATHETER AND METHOD THEREOF	14/128,050	6/29/2012
SYSTEM AND METHOD OF ABLATIVE CUTTING AND PULSED VACUUM ASPIRATION	13/800,651	3/13/2013
LASER CATHETER WITH HELICAL INTERNAL LUMEN	13/800,675	3/13/2013
WIRE CENTERING SHEATH AND METHOD	13/798,985	3/13/2013
ANGULAR OPTICAL FIBER CATHETER	13/800,864	3/13/2013
MATERIAL CAPTURING GUIDEWIRE	13/801,149	3/13/2013
TISSUE SLITTING METHODS AND SYSTEMS	13/828,231	3/14/2013
INTELLIGENT CATHETER	13/804,812	3/14/2013
SMART MULTIPLEXED MEDICAL LASER SYSTEM	13/804,923	3/14/2013
THREADED LEAD EXTRACTION DEVICE	13/828,491	3/14/2013
EXPANDABLE LEAD JACKET	13/828,536	3/14/2013
TISSUE SLITTING METHODS AND SYSTEMS	13/828,383	3/14/2013
TISSUE SLITTING METHODS AND SYSTEMS	13/828,441	3/14/2013
CONTROLLER TO SELECT OPTICAL CHANNEL PARAMETERS IN A CATHETER	13/826,053	3/14/2013

RETRACTABLE BLADE FOR LEAD REMOVAL DEVICE	13/834,405	3/15/2013
CARDIOVASCULAR IMAGING SYSTEM	13/968,993	8/16/2013
ARCH SHAPED LASER CATHETER	14/438,176	10/24/2013
BIASING LASER CATHETER: MONORAIL DESIGN	14/152,334	1/10/2014
ECCENTRIC BALLOON LASER CATHETER	14/175,359	2/7/2014
DISTAL END SUPPORTED TISSUE SLITTING APPARATUS	14/192,445	2/27/2014
DILATOR SHEATH SET	14/195,692	3/3/2014
SURGICAL INSTRUMENT FOR REMOVING AN IMPLANTED OBJECT	14/771,775	3/13/2014
LASER ASSISTED THROMBOLYSIS	14/916,411	9/2/2014
THROMBECTOMY AND SOFT DEBRIS REMOVAL DEVICE	14/562,014	12/5/2014
SURGICAL INSTRUMENT INCLUDING AN INWARDLY DEFLECTING CUTTING TIP FOR REMOVING AN IMPLANTED OBJECT	14/577,976	12/19/2014
MEDICAL DEVICE FOR REMOVING AN IMPLANTED OBJECT	14/627,950	2/20/2015
REENTRY CATHETER AND METHOD THEREOF	14/631,592	2/25/2015
MULTIPLE CONFIGURATION SURGICAL CUTTING DEVICE	14/635,742	3/2/2015
TISSUE SEPARATING SYSTEMS AND METHODS	14/682,779	4/9/2015
MATERIAL REMOVAL CATHETER HAVING AN EXPANDABLE DISTAL END	14/700,550	4/30/2015
SEGMENTED BALLOON LASER ABLATION CATHETER	14/700,556	4/30/2015
REMOTE CONTROL SWITCH FOR A LASER SYSTEM	14/700,576	4/30/2015

SYSTEM AND METHOD FOR COORDINATED LASER DELIVERY AND IMAGING	14/723,956	5/28/2015
SURGICAL INSTRUMENT FOR REMOVING AN IMPLANTED OBJECT	14/725,781	5/29/2015
SYSTEM AND METHOD OF ABLATIVE CUTTING AND VACUUM ASPIRATION THROUGH PRIMARY ORIFICE AND AUXILIARY SIDE PORT	14/725,766	5/29/2015
TERAHERTZ SCANNING SYSTEM FOR AN INTRAVASCULAR SPACE	14/728,168	6/2/2015
CONVERTIBLE OPTICAL AND PRESSURE WAVE ABLATION SYSTEM AND METHOD	14/735,946	6/10/2015
NEEDLE AND GUIDEWIRE HOLDER	14/857,245	9/17/2015
ELECTRODEPOSITION COATING FOR MEDICAL DEVICES	14/869,331	9/29/2015
LEAD REMOVAL SLEEVE	14/877,683	10/7/2015
LASER ENERGY DELIVERY DEVICES INCLUDING LASER TRANSMISSION DETECTION SYSTEMS AND METHODS	14/925,348	10/28/2015
COLLAPSING COIL COUPLING FOR LEAD EXTENSION AND EXTRACTION	14/954,169	11/30/2015
WIRE HOOK COUPLING FOR LEAD EXTENSION AND EXTRACTION	14/954,177	11/30/2015
SNARING SYSTEMS AND METHODS	14/978,731	12/22/2015
MULTI-LOOP COUPLING FOR LEAD EXTENSION AND EXTRACTION	14/983,248	12/29/2015
ELECTRICALLY-INDUCED FLUID FILLED BALLOON CATHETER	14/984,294	12/30/2015
ELECTRICALLY-INDUCED PRESSURE WAVE EMITTING CATHETER SHEATH	14/984,710	12/30/2015
LASER-INDUCED PRESSURE WAVE EMITTING CATHETER SHEATH	14/984,308	12/30/2015
LASER-INDUCED FLUID FILLED BALLOON CATHETER	14/984,050	12/30/2015
DEVICE AND METHOD OF ABLATIVE CUTTING WITH HELICAL TIP	14/994,921	1/13/2016

RETRACTABLE SEPARATING SYSTEMS AND METHODS	14/996,679	1/15/2016
LASER-ASSISTED GUIDEWIRE HAVING A VARIABLE STIFFNESS SHAFT	15/061,594	3/4/2016
INTRA-VASCULAR DEVICE WITH PRESSURE DETECTION CAPABILITIES USING PRESSURE SENSITIVE MATERIAL	15/064,265	3/8/2016
TEMPORARY OCCLUSION BALLOON DEVICES AND METHODS FOR PREVENTING BLOOD FLOW THROUGH A VASCULAR PERFORATION	15/071,533	3/16/2016
ALARM FOR LEAD INSULATION ABNORMALITY	15/072,859	3/17/2016
APPARATUS AND METHOD FOR BALLOON ANGIOPLASTY	15/090,736	4/5/2016
RAPID EXCHANGE BIAS LASER CATHETER DESIGN	15/094,612	4/8/2016
TAPERED LIQUID LIGHT GUIDE	15/138,949	4/26/2016
MATERIAL CAPTURING GUIDEWIRE	15/145,516	5/3/2016
EXPANDABLE MEMBER FOR PERFORATION OCCLUSION	15/174,045	6/6/2016
ENDOCARDIAL LEAD CUTTING APPARATUS	15/218,444	7/25/2016
LASER-INDUCED PRESSURE WAVE EMITTING CATHETER SHEATH	62/366,409	7/25/2016
LASER-INDUCED PRESSURE WAVE EMITTING CATHETER SHEATH	62/366,498	7/25/2016
REENTRY CATHETER AND METHOD THEREOF	15/227,800	8/3/2016
TISSUE SLITTING METHODS AND SYSTEMS	15/229,873	8/5/2016
OFFSET CATHETER	15/230,148	8/5/2016
STABILIZATION DEVICE ASSISTED LEAD TIP REMOVAL	15/241,673	8/19/2016
LIQUID LIGHT-GUIDE CATHETER WITH OPTICALLY DIVERGING TIP	15/243,609	8/22/2016

METHODS FOR TREATING VASCULAR STENOSES INCLUDING LASER ATHERECTOMY AND DRUG DELIVERY VIA DRUG-COATED BALLOONS	15/246,815	8/25/2016
MEDICAL DEVICE FOR REMOVING AN IMPLANTED OBJECT USING LASER CUT HYPOTUBES	15/249,206	8/26/2016
MEDICAL DEVICE HANDLE	29/575,820	8/29/2016
SUPPORT CATHETER AND GUIDEWIRE KIT FOR CROSSING A VASCULAR OCCLUSION	15/274,181	9/23/2016
LASER ABLATION CATHETER	15/281,981	9/30/2016
MEDICAL DEVICE HANDLE	29/580,392	10/7/2016
LIQUID LIGHT GUIDE CATHETER HAVING BIOCOMPATIBLE LIQUID LIGHT GUIDE MEDIUM	15/372,141	12/7/2016
LASER ENERGY DELIVERY DEVICES INCLUDING LASER TRANSMISSION DETECTION SYSTEMS AND METHODS	15/392,987	12/28/2016
EXPANDING TUBE COUPLING FOR REVERSIBLE LEAD LOCKING	62/440,211	12/29/2016
ROTATING AND SLIDING SLEEVE FOR HANDLE PORTION OF LASER CATHETER	62/440,249	12/29/2016
INTERNAL RAIL SYSTEM FOR LASER CATHETER	62/440,257	12/29/2016
LASER-INDUCED PRESSURE WAVE EMITTING CATHETER SHEATH	62/441,021	12/30/2016
LASER-INDUCED PRESSURE WAVE EMITTING CATHETER SHEATH	62/441,030	12/30/2016
MEDICAL DEVICE FOR REMOVING AN IMPLANTED OBJECT	15/406,033	1/13/2017
EXPANDABLE LASER CATHETER	15/429,941	2/10/2017
MEDICAL DEVICE FOR REMOVING AN IMPLANTED OBJECT	15/442,006	2/24/2017
MEDICAL DEVICE FOR REMOVING AN IMPLANTED OBJECT	15/462,357	3/17/2017
LASER ENERGY DELIVERY DEVICES INCLUDING DISTAL TIP ORIENTATION INDICATORS	15/469,240	3/24/2017

LASER ENERGY DELIVERY DEVICES INCLUDING DISTAL TIP ORIENTATION INDICATORS	15/469,247	3/24/2017
TEMPORARY OCCLUSION BALLOON DEVICES AND METHODS FOR PREVENTING BLOOD FLOW THROUGH A VASCULAR PERFORATION	15/474,455	3/30/2017
LASER-INDUCED FLUID FILLED BALLOON CATHETER	15/476,183	3/31/2017

**UNITED STATES PATENT APPLICATIONS
ASSIGNED TO ANGIOSCORE, INC.**

<u>Title</u>	<u>Serial Number</u>	<u>Filing Date</u>
METHODS AND SYSTEMS FOR DELIVERING SUBSTANCES INTO LUMINAL WALLS	11/411,635	4/26/2006
BALLOON CATHETER WITH NON-DEPLOYABLE STENT	13/022,489	2/7/2011
BALLOON CATHETER WITH NON-DEPLOYABLE STENT	13/489,250	6/5/2012
BALLOON CATHETER WITH NON-DEPLOYABLE STENT HAVING IMPROVED STABILITY	14/048,955	10/8/2013
APPARATUS AND METHODS FOR TREATING HARDENED VASCULAR LESIONS	14/275,264	5/12/2014
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	14/731,715	6/5/2015
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	14/877,284	10/7/2015
METHOD AND SYSTEM FOR TREATING VALVE STENOSIS	15/164,611	5/25/2016
APPARATUS AND METHODS FOR TREATING HARDENED VASCULAR LESIONS	62/381,751	8/31/2016
TRIGGERED RELEASE MECHANISM TO IMPROVE EFFICACY OF DRUG COATED BALLOONS	15/282,579	9/30/2016
BALLOON ANGIOPLASTY CATHETER COATING TO ENCOURAGE VESSEL REPAIR AND FURTHER REDUCE RESTENOSIS	15/354,237	11/17/2016

BALLOON CATHETER WITH NON-DEPLOYABLE STENT HAVING IMPROVED STABILITY 15/373,933 12/9/2016

METHODS AND SYSTEMS FOR DELIVERING SUBSTANCES INTO LUMINAL WALLS 15/431,302 2/13/2017

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Registration Number / Date: TXu001723730 / 2010-10-20
Application Title: Spectranetics Laser Radiation and Hazard Manual for the Safe Operation and Service of the CVX-300 Excimer Laser System.
Title: Spectranetics Laser Radiation and Hazard Manual for the Safe Operation and Service of the CVX-300 Excimer Laser System.
Description: Electronic Deposit.
Copyright Claimant: The Spectranetics Corporation. Address: 9965 Federal Drive, Colorado Springs, CO, 80921, United States.
Date of Creation: 2010
Authorship on Application: The Spectranetics Corporation, employer for hire; Domicile: United States; Citizenship: United States. Authorship: text, photograph(s), compilation, editing, artwork.
Rights and Permissions: Roger Wertheimer, Spectranetics, 9965 Federal Drive, Colorado Springs, CO, 80921, United States, (719) 633-8333, roger.wertheimer@spnc.com

Registration Number / Date: TXu001819329 / 2012-07-18
Application Title: Laser Radiation and Hazard Manual for the Safe Operation and Service of the CVX-300-P Excimer Laser System.
Title: Laser Radiation and Hazard Manual for the Safe Operation and Service of the CVX-300-P Excimer Laser System.
Description: Electronic file (eService)
Copyright Claimant: The Spectranetics Corporation. Address: 9965 Federal Drive, Colorado Springs, CO, 80921, United States.
Date of Creation: 2012
Authorship on Application: The Spectranetics Corporation, employer for hire; Domicile: United States; Citizenship: United States. Authorship: text, photograph(s), compilation, editing, artwork.
Rights and Permissions: Roger Wertheimer, The Spectranetics Corporation, 9965 Federal Drive, Colorado Springs, CO, 80921, United States, (719) 633-8333, roger.wertheimer@spnc.com

LICENSES

The Company is party to license agreements under which the Company licenses patents covering certain aspects of the Company's products. For example, the Company has an amended vascular laser angioplasty catheter license agreement with SurModics, Inc., under which SurModics has granted the Company a worldwide non-exclusive license to use a lubricious coating that is applied to the Company's products using certain SurModics patents. The Company pays SurModics royalties as a specified percentage of net sales of products using its patents, subject to a quarterly minimum royalty. The license agreement expires on the later of the expiration of the last licensed patent or the fifteenth anniversary of the date a licensed product is first sold unless terminated earlier (1) by either party if the other party is involved with insolvency, dissolution or bankruptcy proceedings, (2) by the Company upon 90 days' advance written notice, or (3) by SurModics upon 60 days' advance written notice if the Company has failed to perform its obligations under the agreement and has not cured such breach during such 60-day period, or if the royalties the Company pays SurModics are not greater than specified levels. In 2016, the Company incurred royalties of approximately \$1.4 million to SurModics under this license agreement.

In December 2009, the Company entered into a license agreement with Peter Rentrop, M.D. As part of the agreement, the Company received a worldwide, exclusive license to certain patents and patent applications owned by Dr. Rentrop, which, in general, apply to laser catheters with a tip diameter less than one millimeter. The Company pays Dr. Rentrop royalties of a specified percentage of net sales of products using his patents subject to a quarterly minimum royalty. The license agreement expires in January 2020, unless terminated earlier in accordance with its terms. In 2016, the Company incurred royalties of approximately \$3.0 million to Dr. Rentrop under this license agreement.

In March 2010, AngioScore entered into a development and license agreement with InnoRa GmbH, Ulrich Speck and Bruno Scheller. As part of the agreement, AngioScore received an exclusive license to certain InnoRa intellectual property related to drug coatings of certain balloon catheters in the field of the treatment of coronary artery disease and peripheral arterial disease, and AngioScore obtained ownership of any new technology developed under the agreement. AngioScore pays InnoRa royalties of a specified percentage of net sales of products developed under the agreement. The exclusive rights granted by InnoRa are subject to AngioScore meeting certain milestones. If AngioScore does not satisfy the milestones, then the exclusive license rights will convert to a non-exclusive license, and AngioScore will license certain new technology developed under the agreement to InnoRa. In 2016, AngioScore incurred an immaterial amount in royalties under this license agreement.

SCHEDULE C

Released Trademarks

[See Attached]

EXHIBIT C

Trademarks

UNITED STATES ISSUED TRADEMARKS, SERVICE MARKS AND COLLECTIVE MEMBERSHIP MARKS

REGISTRATIONS ASSIGNED TO THE SPECTRANETICS CORPORATION

<u>Mark</u>	<u>Registration Number</u>	<u>Registration Date</u>
CVX-300	1,723,546	October 13, 1992
DESIGN (New Diamond Logo)	4,638,019	November 11, 2014
ELCA	1,823,660	February 22, 1994
GLIDELIGHT	4,243,271	November 13, 2012
LLD	2,922,727	February 1, 2005
LLD EZ	3,562,200	January 13, 2009
QUICK-ACCESS	4,522,960	April 29, 2014
QUICK-CROSS	2,928,706	May 1, 2005
QUICK-CROSS CAPTURE	4,548,605	June 10, 2014
SIGHTRAIL	4,673,064	January 13, 2015
SLS	3,072,724	March 28, 2006
SPECTRANETICS	1,741,106	December 22, 1992
SPECTRANETICS	4,708,930	March 24, 2015
SPECTRANETICS	4,708,931	March 24, 2015
SPECTRANETICS (Stylized)	1,717,853	September 22, 1992
SPNC	3,737,800	January 12, 2010
TIGHTRAIL	4,673,065	January 13, 2015
TIGHTRAIL MINI	4,729,002	April 28, 2015
TORQMAX	3,832,560	August 10, 2010
TURBO ELITE	3,367,148	January 8, 2008

<u>Mark</u>	<u>Registration Number</u>	<u>Registration Date</u>
TURBO-BOOSTER	4,712,538	March 31, 2015
TURBO-TANDEM	3,782,516	April 27, 2010
TURBO-TAPE	4,814,469	September 15, 2015
VISISHEATH	3,768,583	March 30, 2010

REGISTRATIONS
ASSIGNED TO ANGIOSCORE INC.

<u>Mark</u>	<u>Registration Number</u>	<u>Registration Date</u>
ANGIOSCORE	2,931,808	March 8, 2005
ANGIOSCULPT	2,920,010	January 18, 2005
HYDROCROSS	4,832,482	October 13, 2015

APPLICATIONS
ASSIGNED TO THE SPECTRANETICS CORPORATION

<u>Mark</u>	<u>Application Number</u>	<u>Application Filing Date</u>
ALWAYS REACHING FARTHER	85/687,837	July 26, 2012
BRIDGE	86,721,317	August 11, 2015
BRIDGE TO SURGERY	86,721,317	August 11, 2015
DESIGN (New Diamond Logo)	85/687,831	July 26, 2012
NETICS MEDICAL	86/541,303	February 20, 2015
SPECTRANETICS	85/687,806	July 26, 2012
SPNC	86/414,400	October 3, 2014
TURBO ELITE BTK	86/441,590	October 31, 2014
TURBO-POWER	86/701,531	July 22, 2015
TURBO-TAPE	86/369,316	August 18, 2014

EXHIBIT D

Mask Works

None.

UNITED STATES ISSUED TRADEMARKS, SERVICE MARKS
AND COLLECTIVE MEMBERSHIP MARKS

REGISTRATIONS
ASSIGNED TO THE SPECTRANETICS CORPORATION

<u>Mark</u>	<u>Registration Number</u>	<u>Registration Date</u>
BRIDGE	5,110,715	December 27, 2016
CVX-300	1,723,546	October 13, 1992
DESIGN (New Diamond Logo)	4,638,019	November 11, 2014
ELCA	1,823,660	February 22, 1994
GLIDELIGHT	4,243,271	November 13, 2012
LLD	2,922,727	February 1, 2005
LLD EZ	3,562,200	January 13, 2009
QUICK-ACCESS	4,522,960	April 29, 2014
QUICK-CROSS	2,928,706	May 1, 2005
QUICK-CROSS CAPTURE	4,548,605	June 10, 2014
SIGHTRAIL	4,673,064	January 13, 2015
SLS	3,072,724	March 28, 2006
SPECTRANETICS	1,741,106	December 22, 1992
SPECTRANETICS	4,708,930	March 24, 2015
SPECTRANETICS	4,708,931	March 24, 2015
SPECTRANETICS (Stylized)	1,717,853	September 22, 1992
SPNC	3,737,800	January 12, 2010
STELLAREX	4,993,727	July 5, 2016
TIGHTRAIL	4,673,065	January 13, 2015
TIGHTRAIL MINI	4,729,002	April 28, 2015
TORQMAX	3,832,560	August 10, 2010
TURBO ELITE	3,367,148	January 8, 2008
TURBO-BOOSTER	4,712,538	March 31, 2015

<u>Mark</u>	<u>Registration Number</u>	<u>Registration Date</u>
TURBO-POWER	4,966,361	May 24, 2016
TURBO-TANDEM	3,782,516	April 27, 2010
TURBO-TAPE	4,814,469	September 15, 2015
VISISHEATH	3,768,583	March 30, 2010

REGISTRATIONS
ASSIGNED TO ANGIOSCORE INC.

<u>Mark</u>	<u>Registration Number</u>	<u>Registration Date</u>
ANGIOSCORE	2,931,808	March 8, 2005
ANGIOSCULPT	2,920,010	January 18, 2005
HYDROCROSS	4,832,482	October 13, 2015

APPLICATIONS
ASSIGNED TO THE SPECTRANETICS CORPORATION

<u>Mark</u>	<u>Application Number</u>	<u>Application Filing Date</u>
ALWAYS REACHING FARTHER	87/067,844	June 10, 2016
BRIDGE TO SURGERY	86,721,317	August 11, 2015
DESIGN (New Diamond Logo)	87/067,850	June 10, 2016
NETICS MEDICAL	86/541,303	February 20, 2015
NEXCIMER	86/926,277	March 2, 2016
SPECTRANETICS	87/067,855	June 10, 2016
SPNC	86/414,400	October 3, 2014
THOR	87/353,486	February 28, 2017
TURBO ELITE BTK	86/441,590	October 31, 2014
TURBO-HAMMER	87/353,491	February 28, 2017

TURBO-THOR

87/353,488

February 28, 2017

ENDURACOAT

86/278,131

May 12, 2014

APPLICATIONS
ASSIGNED TO ANGIOSCORE INC.

NONE

COLLECTIVE MEMBERSHIP MARKS

NONE

UNREGISTERED MARKS

NONE

UNITED STATES PATENTS

**UNITED STATES ISSUED PATENTS – ASSIGNED TO THE SPECTRANETICS
CORPORATION**

<u>Title</u>	<u>Patent Number</u>	<u>Issue Date</u>
ASSEMBLIES AND METHODS FOR ADVANCING A GUIDE WIRE THROUGH BODY TISSUE	5,951,482	9/14/1999
PHOTOTHERAPY DEVICE AND METHOD	5,976,124	11/2/1999
SYSTEMS AND METHODS FOR GUIDING A MEDICAL INSTRUMENT THROUGH A BODY	6,048,349	4/11/2000
SYSTEMS AND METHODS FOR GUIDING A MEDICAL INSTRUMENT THROUGH A BODY	6,063,093	5/16/2000
EXPANDABLE LASER CATHETER	6,106,515	8/22/2000
LEAD LOCKING DEVICE AND METHOD	6,167,315	12/26/2000

ASSEMBLIES AND METHODS FOR ADVANCING A GUIDE WIRE THROUGH BODY TISSUE	6,193,676	2/27/2001
SYSTEM AND METHOD FOR CONTROLLING TISSUE ABLATION	6,228,076	5/8/2001
LIGHT DELIVERY CATHETER AND METHODS FOR THE USE THEREOF	6,290,668	9/18/2001
LEAD LOCKING DEVICE AND METHOD	6,324,434	11/27/2001
CATHETER FOR CONTROLLING THE ADVANCEMENT OF A GUIDE WIRE	6,394,976	5/28/2002
SYSTEMS AND METHODS FOR GUIDING A MEDICAL INSTRUMENT THROUGH A BODY	6,463,313	10/8/2002
EXPANDABLE LASER CATHETER	6,485,485	11/26/2002
SYSTEMS AND METHODS FOR STEERING A CATHETER THROUGH BODY TISSUE	6,663,621	12/16/2003
CATHETER HANDLE FOR CONTROLLING THE ADVANCEMENT OF A GUIDE WIRE	6,752,800	6/22/2004
LEAD LOCKING DEVICE AND METHOD	6,772,014	8/3/2004
METHOD AND APPARATUS FOR GUIDING A GUIDE WIRE	6,842,639	1/11/2005
RADIO FREQUENCY GUIDE WIRE ASSEMBLY WITH OPTICAL COHERENCE REFLECTOMETRY GUIDANCE	6,852,109	2/8/2005
DEFLECTING CATHETER	6,951,554	10/4/2005
SYSTEMS AND METHODS FOR GUIDING A MEDICAL INSTRUMENT THROUGH A BODY	6,970,732	11/29/2005
PROXIMAL COUPLER FOR OPTICAL FIBERS	7,050,692	5/23/2006
EXPANDABLE LASER CATHETER	7,288,087	10/30/2007
SHAPEABLE INTRALUMINAL DEVICE AND METHOD THEREFOR	7,303,533	12/4/2007
LEAD LOCKING DEVICE AND METHOD	7,499,756	3/3/2009

RADIO FREQUENCY GUIDE WIRE ASSEMBLY WITH OPTICAL COHERENCE REFLECTOMETRY GUIDANCE	7,563,262	7/21/2009
APPARATUS AND METHODS FOR DIRECTIONAL DELIVERY OF LASER ENERGY	7,572,254	8/11/2009
ENDOCARDIAL LEAD CUTTING APPARATUS	7,651,503	1/26/2010
THROMBECTOMY AND SOFT DEBRIS REMOVAL DEVICE	7,666,161	2/23/2010
APPARATUS AND METHODS FOR DIRECTIONAL DELIVERY OF LASER ENERGY	7,846,153	12/7/2010
SHAPEABLE INTRALUMINAL DEVICE AND METHOD THEREFOR	7,951,094	5/31/2011
THROMBECTOMY AND SOFT DEBRIS REMOVAL DEVICE	7,959,608	6/14/2011
THROMBECTOMY AND SOFT DEBRIS REMOVAL DEVICE	7,976,528	7/12/2011
ENDOCARDIAL LEAD REMOVING APPARATUS	7,993,359	8/9/2011
LOW-LOSS POLARIZED LIGHT DIVERSION	8,059,274	11/15/2011
ENDOCARDIAL LEAD REMOVING APPARATUS	8,097,012	1/17/2012
LASER CATHETER CALIBRATOR	8,100,893	1/24/2012
MULTI-PORT LIGHT DELIVERY CATHETER AND METHODS FOR THE USE THEREOF	8,104,483	1/31/2012
EXPANDABLE LASER CATHETER	8,182,474	5/22/2012
LASER-ASSISTED GUIDEWIRE HAVING A VARIABLE STIFFNESS SHAFT	8,414,568	4/9/2013
LEAD LOCKING DEVICE AND METHOD	8,428,747	4/23/2013
EXPANDABLE LASER CATHETER	8,465,480	6/18/2013
CARDIOVASCULAR IMAGING SYSTEM	8,545,488	10/1/2013

RAPID EXCHANGE BIAS LASER CATHETER DESIGN	8,628,519	1/14/2014
ECCENTRIC BALLOON LASER CATHETER	8,702,773	4/22/2014
LASER-ASSISTED GUIDEWIRE HAVING A VARIABLE STIFFNESS SHAFT	8,758,333	6/24/2014
THROMBECTOMY AND SOFT DEBRIS REMOVAL DEVICE	8,920,402	12/30/2014
REENTRY CATHETER AND METHOD THEREOF	8,956,376	2/17/2015
RETRACTABLE SEPARATING SYSTEM AND METHODS	8,961,551	2/24/2015
TAPERED LIQUID LIGHT GUIDE	8,979,828	3/17/2015
REENTRY CATHETER AND METHOD THEREOF	8,998,936	4/7/2015
TISSUE SEPARATING SYSTEMS AND METHODS	9,028,520	5/12/2015
INTRA-VASCULAR DEVICE WITH PRESSURE DETECTION CAPABILITIES USING PRESSURE SENSITIVE MATERIAL	9,066,742	6/30/2015
NEEDLE AND GUIDEWIRE HOLDER	9,162,038	10/20/2015
SNARING SYSTEMS AND METHODS	9,220,523	12/29/2015
EXPANDABLE LASER CATHETER	9,254,175	2/9/2016
LASER-ASSISTED GUIDEWIRE HAVING A VARIABLE STIFFNESS SHAFT	9,283,039	3/15/2016
DEVICE AND METHOD OF ABLATIVE CUTTING WITH HELICAL TIP	9,283,040	3/15/2016
INTRA-VASCULAR DEVICE WITH PRESSURE DETECTION CAPABILITIES USING PRESSURE SENSITIVE MATERIAL	9,289,173	3/22/2016
RETRACTABLE SEPARATING SYSTEMS AND METHODS	9,289,226	3/22/2016
ALARM FOR LEAD INSULATION ABNORMALITY	9,291,663	3/22/2016

RAPID EXCHANGE BIAS LASER CATHETER DESIGN	9,308,047	4/12/2016
ASSISTED CUTTING BALLOON	9,320,530	4/26/2016
TAPERED LIQUID LIGHT GUIDE	9,339,337	5/17/2016
MATERIAL CAPTURING GUIDEWIRE	9,345,508	5/24/2016
EXPANDABLE MEMBER FOR PERFORATION OCCLUSION	9,358,042	6/7/2016
OFFSET CATHETER	9,408,665	8/9/2016
REENTRY CATHETER AND METHOD THEREOF	9,408,998	8/9/2016
TISSUE SLITTING METHODS AND SYSTEMS	9,413,896	8/9/2016
STABILIZATION DEVICE ASSISTED LEAD TIP REMOVAL	9,421,035	8/23/2016
LIQUID LIGHT-GUIDE CATHETER WITH OPTICALLY DIVERGING TIP	9,421,065	8/23/2016
LASER ABLATION CATHETER	9,456,872	10/4/2016
EXPANDABLE LASER CATHETER	9,566,116	2/14/2017
MEDICAL DEVICE FOR REMOVING AN IMPLANTED OBJECT	9,603,618	3/28/2017
CATHETER MOVEMENT CONTROL	9,623,211	4/18/2017
RADIOPAQUE TAPE	D740,946	10/13/2015
RADIOPAQUE TAPE	D742,520	11/3/2015
RADIOPAQUE TAPE	D742,521	11/3/2015
RADIOPAQUE TAPE	D742,522	11/3/2015

RADIOPAQUE TAPE	D748,266	1/26/2016
SHEATH	D753,289	4/5/2016
SHEATH SET	D753,290	4/5/2016
MEDICAL DEVICE HANDLE	D765,243	8/30/2016
MEDICAL DEVICE HANDLE	D770,616	11/1/2016
MEDICAL DEVICE HANDLE	D775,728	1/3/2017

UNITED STATES ISSUED PATENTS – ASSIGNED TO ANGIOSCORE INC.

<u>Title</u>	<u>Patent Number</u>	<u>Issue Date</u>
FACILITATED BALLOON CATHETER EXCHANGE	7,022,104	4/4/2006
FACILITATED BALLOON CATHETER EXCHANGE	7,513,886	4/7/2009
APPARATUS AND METHODS FOR TREATING HARDENED VASCULAR LESIONS	7,686,824	3/30/2010
BALLOON CATHETER WITH NON-DEPLOYABLE STENT	7,691,119	4/6/2010
BALLOON CATHETER WITH NON-DEPLOYABLE STENT	7,931,663	4/26/2011
APPARATUS AND METHODS FOR TREATING HARDENED VASCULAR LESIONS	7,955,350	6/7/2011
APPARATUS AND METHODS FOR TREATING HARDENED VASCULAR LESIONS	8,080,026	12/20/2011
APPARATUS AND METHODS FOR TREATING HARDENED VASCULAR LESIONS	8,454,636	6/4/2013

METHOD AND SYSTEM FOR TREATING VALVE STENOSIS	8,632,559	1/21/2014
APPARATUS AND METHODS FOR TREATING HARDENED VASCULAR LESIONS	8,721,667	5/13/2014
METHODS AND SYSTEMS FOR DELIVERING SUBSTANCES INTO LUMINAL WALLS	8,864,743	10/21/2014
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	9,011,896	4/21/2015
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	9,072,812	7/7/2015
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	9,078,951	7/14/2015
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	9,101,684	8/11/2015
COATING FORMULATIONS FOR SCORING OR CUTTING BALLOON CATHETERS	9,173,977	11/3/2015
METHOD AND SYSTEM FOR TREATING VALVE STENOSIS	9,351,756	5/31/2016
METHOD AND SYSTEM FOR TREATING VALVE STENOSIS	9,364,254	6/14/2016
BALLOON CATHETER WITH NON-DEPLOYABLE STENT	9,375,328	6/28/2016
METHODS AND SYSTEMS FOR DELIVERING SUBSTANCES INTO LUMINAL WALLS	9,586,031	3/7/2017

**UNITED STATES PATENT APPLICATIONS
ASSIGNED TO THE SPECTRANETICS CORPORATION**

<u>Title</u>	<u>Serial Number</u>	<u>Filing Date</u>
ENDOCARDIAL LEAD CUTTING APPARATUS	11/187,553	1/22/2005
LIQUID LIGHT GUIDE CATHETER HAVING BIOCOMPATIBLE LIQUID LIGHT GUIDE MEDIUM	11/923,488	10/24/2007