

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2649365

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
C.R. BARD, INC.	11/01/2013
RECEIVING PARTY DATA	
Name:	BOSTON SCIENTIFIC SCIMED, INC.
Street Address:	ONE SCIMED PLACE
City:	MAPLE GROVE
State/Country:	MINNESOTA
Postal Code:	55311
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13487907
CORRESPONDENCE DATA	
Fax Number:	(612)359-9349
Phone:	612-677-9050
Email:	theresa.russek@stwiplaw.com
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>	
Correspondent Name:	JASON W. BURGMAIER
Address Line 1:	1221 NICOLLET AVENUE
Address Line 2:	SUITE 800
Address Line 4:	MINNEAPOLIS, MINNESOTA 55403
ATTORNEY DOCKET NUMBER:	1001.3516103
NAME OF SUBMITTER:	JASON W. BURGMAIER
Signature:	/Jason W. Burgmaier/
Date:	12/16/2013

CH \$40.00 13487907

Total Attachments: 30

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ASSIGNMENT OF PATENTS

This **ASSIGNMENT OF PATENTS** is made as of the 1st day of November, 2013 (this "Assignment") by **C. R. BARD, INC.**, a New Jersey corporation ("Assignor"), in favor of **BOSTON SCIENTIFIC SCIMED, INC.**, a Minnesota corporation ("Assignee"). Capitalized terms used and not otherwise defined herein shall have the meanings ascribed to them in that certain Asset Purchase Agreement dated as of June 27, 2013 (the "Purchase Agreement"), by and between Assignor and Assignee.

WHEREAS, Assignor is the owner of certain patents and patent rights of record identified in Exhibit 1 attached hereto (the "Assigned Patent Rights");

WHEREAS, Assignee has acquired the Assignor's right, title and interest in and to the Purchased Assets, including the Assigned Patent Rights, pursuant to the Purchase Agreement; and

WHEREAS, pursuant to Section 10.1(g) of the Purchase Agreement, Assignor has agreed to execute and deliver such instruments of assignment and transfer with respect to the Purchased Assets as Assignee may reasonably request, including with respect to the Assigned Patent Rights, so as to vest in Assignee or its designated Affiliates good and marketable title to the Assigned Patent Rights.

NOW, THEREFORE, for good and valuable consideration, receipt and adequacy of which are hereby acknowledged, Assignor does hereby sell, assign, transfer and set over unto Assignee, its successors and assigns, the entire and exclusive right, title and interest in and to all inventions in the United States and throughout the world (with priority rights) in and to the Assigned Patent Rights, and in and to any continuations, continuations-in-part, divisions, reissues, extensions and foreign counterparts of the Assigned Patent Rights, together with all claims for damages by reason of past infringement of any Assigned Patent Rights, with the right to sue for and collect the same, and Assignor further agrees to execute and have executed all documents, instruments and papers, and to perform all acts, without any further consideration but at the cost and expense of Assignee, as deemed reasonably necessary by Assignee to perfect in Assignee the foregoing rights, title and interests, including the execution of any related domestic or foreign application documents.

Assignor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue the United States Letters Patents resulting from all the applications in the Assigned Patent Rights to Assignee, its successors and assigns.

This Assignment shall be subject to the terms and conditions set forth in the Purchase Agreement and nothing contained in this Assignment shall be construed to limit, terminate or expand the representations, warranties or covenants set forth in the Purchase Agreement.

This Assignment shall be governed by, and construed in accordance with the laws of the State of Delaware, United States, without regard to conflicts of law principles.

IN WITNESS WHEREOF, Assignor has executed this Assignment, as an instrument under seal on this 1st day of November, 2013.

ASSIGNOR:

C. R. BARD, INC.:

By: 

Name: Timothy P. Collins

Title: Group President

STATE OF New Jersey
COUNTY OF Hudson ss.

On this 29th day of October, 2013, before me appeared Timothy P. Collins, the person who signed this instrument, who acknowledged that he signed such instrument as his free act and deed.


Notary Public

My commission expires: 6/30/14

MYRA A. MCGINLEY
A Notary Public of New Jersey
My Commission Expires June 30, 2014

[SIGNATURE PAGE TO ASSIGNMENT OF PATENTS]

PATENT
REEL: 031787 FRAME: 0283

ASSIGNEE:

BOSTON SCIENTIFIC SCIMED, INC.

By: 

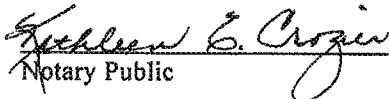
Name: Vance Brown

Title: Vice President

STATE OF MASSACHUSETTS

COUNTY OF MIDDLESEX ss.

On this 30th day of OCTOBER, 2013, before me appeared VANCE BROWN, the person who signed this instrument, who acknowledged that he signed such instrument as his free act and deed.


Notary Public

My commission expires: MAY 26, 2018

[SIGNATURE PAGE TO ASSIGNMENT OF PATENTS]

PATENT
REEL: 031787 FRAME: 0284

EXHIBIT 1

See Attached.

COUNTRY	STATUS	TITLE	SERIAL NUMBER	DATE FILED	PATENT NUMBER	ISSUE DATE
AT	Issued	Adaptor Device for Unipolar Electrode Catheters	938300217	22-Jan-93	ATE151300T1	9-Apr-97
AT	Issued	An Electrode Catheter for Mapping and Operating on Cardiac Cavities	948300074	12-Jan-94	ATE151250T1	9-Apr-97
BE	Issued	A Positively Anchored Retractable Tripolar Catheter for Endocardial Pacemaker Electrodes	918301169	26-Mar-91	452278	2-Nov-95
BE	Issued	An Electrode Catheter for Mapping and Operating on Cardiac Cavities	948300074	12-Jan-94	609182	9-Apr-97
BE	Issued	Flexible, Kink Resistant, Low Friction Guidewire with Formable Tip, and Method for Making Same	999098577	4-Mar-99	1059955	8-Dec-04
CA	Issued	Apparatus for Creating a Continuous Annular Lesion	2382518	7-Sep-00	2382518	21-Jul-09
CA	Issued	Steerable Catheter (Medical Device Having An Incrementally Displaceable Electrode)	2376924	6-Jul-00	2376924	18-Nov-08
CA	Pending	Active Counterforce Handle for Use in Bidirectional Deflectable Tip Instruments		23-Oct-01		
CA	Pending	Catheter with Contoured Ablation Electrode	607182	1-Aug-89		
CA	Pending	Rotatable Control Mechanism for Steerable Catheter	2283247	17-Mar-98		
CA	Pending	Slidable Control Mechanism for Steerable Catheter	2283243	17-Mar-98		
CA	Pending	Device for Linear High Frequency Catheter Ablation of Endomyocardial Tissue	2240672	11-Apr-96		
CA	Pending	Steerable Catheter	2391975	23-Aug-00		
CH	Issued	An Adaptor Device for Electrode Catheter	928300839	25-Feb-92	506620	19-Apr-95
CH	Issued	Adaptor Device for Unipolar Electrode Catheters	938300217	22-Jan-93	574358	9-Apr-97
CH	Issued	An Electrode Catheter for Mapping and Operating on Cardiac Cavities	948300074	12-Jan-94	609182	9-Apr-97

DE	Issued	Methods for Processing Electrocardiac Signals Having Superimposed Complexes	40163446	12-Jul-04	1 495 716	11-Feb-09
DE	Issued	Systems for Processing Electrocardiac Signals Having Superimposed Complexes	19970391	7-Nov-01	1331876	5-Aug-09
DE	Issued	Methods for Processing Electrocardiac Signals Having Superimposed Complexes	40254054	7-Nov-01	1510172	1-Jul-09
DE	Issued	Microelectrode Catheter for Mapping and Ablation	19932508	11-Dec-01	1 343 427	26-Jul-06
DE	Issued	Apparatus and Methods for Mapping and Ablation in Electrophysiology Procedures	19349422	27-Apr-01	1284670	3-Jun-09
DE	Issued	Apparatus and Methods for Mapping and Ablation in Electrophysiology Procedures	50776848	24-Nov-05	1642544	8-Apr-09
DE	Issued	Ablation Catheter		4-Jan-02	60215766.8	2-Nov-06
DE	Issued	Electrophysiology Catheter for Mapping and/or Ablation	60223794708	29-Mar-02	1383567	28-Nov-07
DE	Issued	Handle Design for a Medical Catheter	60222545008	26-Apr-02	1387641	19-Sep-07
DE	Issued	Method and Apparatus for Control of Ablation Energy and Electrogram Acquisition Through Multiple Common Electrodes in an Electrophysiology Catheter	60315427108	17-Mar-03	1487366	8-Aug-07
DE	Issued	Method and Apparatus for Three-Dimensional Mapping of Electrical Activity in Blood Vessels and Ablation of Electrical Pathways Identified By the Three Dimensional Map (PCT title changed to above)	27290014	26-Apr-02	1383426	24-Dec-08
DE	Issued	Electrophysiology Catheter with Ablation Electrode	37835063	17-Nov-03	1562506	13-May-09
DE	Issued	Improved Braided Mesh Catheter		29-Mar-04	602004011608.4-08	30-Jan-08
DE	Issued	Irrigated Catheter	57518672	17-May-05	6.02005E+11	30-Nov-11
DE	Issued	Catheter with Independent Proximal and Distal Control	931195374	3-Dec-93	605796	13-Aug-03

DE	Issued	Catheter with Independent Proximal and Distal Control and Actuator for Use with Same	1141456	3-Dec-93	69333256.5	15-Oct-03
DE	Issued	Steerable Electrode Catheter	969306885	23-Aug-96	69631514.9	11-Feb-04
DE	Issued	Radio Frequency Energy Delivery System for Multipolar Electrode Catheters	969437052	27-Nov-96	69630393	14-Oct-03
DE	Issued	Radio Frequency Energy Delivery System for Multipolar Electrode Catheters	30196463	27-Nov-96	69635722.4	11-Jan-06
DE	Issued	Rotatable Control Mechanism for Steerable Catheter	69817201T2	17-Mar-98	1019133	13-Aug-03
DE	Issued	Rotatable Control Mechanism for Steerable Catheter	12051041	17-Mar-98	1 197 240	22-Feb-06
DE	Issued	Slidable Control Mechanism for Steerable Catheter	989117700	17-Mar-98	698 31 497.2-08	7-Sep-05
DE	Issued	Steerable Catheter With Fixed Curve	971187125	28-Oct-97	839547	24-Sep-03
DE	Issued	Snap-Fit Distal Assembly for an Ablation Catheter	69628635108	8-Nov-96	802771	11-Jun-03
DE	Issued	Device for Linear High Frequency Catheter Ablation of Myocardial Tissue	969195262	11-Apr-96	295 19 651.3	5-Jul-00
DE	Issued	A Positively Anchored Retractable Tripolar Catheter for Endocardial Pacemaker Electrodes	918301169	26-Mar-91	452278	2-Nov-95
DE	Issued	An Actively Anchored Electrode for Electrode Catheter	928305242	25-Sep-92	536096	3-Jul-96
DE	Issued	Adaptor Device for Unipolar Electrode Catheters	938300217	22-Jan-93	DE69309548T2	9-Apr-97
DE	Issued	An Electrode Catheter for Mapping and Operating on Cardiac Cavities	948300074	12-Jan-94	DE69402447T2	9-Apr-97
DE	Issued	Adaptor Device for Electrode Catheter (also see Italian appln. no. B092A000233 filed 6/6/92)	672432	10-Mar-95	DE 69516924 T2	30-Nov-00

DE	Issued	Flexible, Kink Resistant, Low Friction Guidewire with Formable Tip, and Method for Making Same	999098577	4-Mar-99	699 22 493.4-08	8-Dec-04
DE	Issued	Pulmonary Vein Ablation Catheter	99152861	2-Apr-99	699 19 529.2-08	18-Aug-04
DE	Issued	System and Method for Gauging the Amount of Electrode-Tissue Contact using Pulsed Radio-Frequency Energy	9635442	14-Sep-00	DE 60020577.0	31-May-05
DE	Issued	Method and Apparatus for Performing Cardiac Ablations		1-Jun-00	600 41 401.9-08	14-Jan-09
DE	Issued	Ablation Catheter	979208774	9-May-97	69725981.1	5-Nov-03
DE	Issued	Intracardiac Grasp Catheter	999618580	23-Nov-99	69941155.6-08	22-Jul-09
DE	Issued	Intracardiac Grasp Catheter	999618580	23-Nov-99	1133264	22-Jul-09
DE	Issued	Internal Mechanism for Displacing a Slidable Electrode	999640550	1-Dec-99	699 284 39.2	16-Nov-05
DE	Issued	Steerable Catheter (Medical Device Having An Incrementally Displaceable Electrode)	9434028	6-Jul-00	1202772	8-Nov-06
DE	Pending	Device for Linear High Frequency Catheter Ablation of Myocardial Tissue	295196513	14-Dec-95		
DE	Pending	Methods and Apparatus for Ablation of Cardiac Tissue	68484013	29-Dec-06	6.02006E+11	
DK	Issued	An Electrode Catheter for Mapping and Operating on Cardiac Cavities	948300074	12-Jan-94	609182	9-Apr-97
EP	Issued	Methods for Processing Electrocardiac Signals Having Superimposed Complexes	40163446	12-Jul-04	1 495 716	11-Feb-09
EP	Issued	Methods for Processing Electrocardiac Signals Having Superimposed Complexes	40254054	7-Nov-01	1510172	1-Jul-09
EP	Issued	Systems for Processing Electrocardiac Signals Having Superimposed Complexes	19970391	7-Nov-01	1331876	5-Aug-09
EP	Issued	Active Counterforce Handle for Use in Bidirectional Deflectable Tip Instruments	19735414	24-Sep-01	1337294	5-May-10
EP	Issued	Microelectrode Catheter for Mapping and Ablation	19932508	11-Dec-01	1 343 427	26-Jul-06

EP	Issued	Microelectrode Catheter for Mapping and Ablation	19901677	11-Dec-01	1343426	24-Oct-12
EP	Issued	Apparatus and Methods for Mapping and Ablation in Electrophysiology Procedures	50776848	24-Nov-05	1642544	8-Apr-09
EP	Issued	Apparatus and Methods for Mapping and Ablation in Electrophysiology Procedures	19349422	27-Apr-01	1284670	3-Jun-09
EP	Issued	Ablation Catheter	27172741	4-Jan-02	1 351 618	2-Nov-06
EP	Issued	Electrophysiology Catheter for Mapping and/or Ablation	27194034	29-Mar-02	1383567	28-Nov-07
EP	Issued	Software Controlled Electrophysiology Data Management	19757632	20-Sep-01	1420690	17-May-10
EP	Issued	Handle Design for a Medical Catheter	27668326	26-Apr-02	1387641	19-Sep-07
EP	Issued	Method and Apparatus for Control of Ablation Energy and Electrogram Acquisition Through Multiple Common Electrodes in an Electrophysiology Catheter	37469210	17-Mar-03	1487366	8-Aug-07
EP	Issued	Method and Apparatus for Three-Dimensional Mapping of Electrical Activity in Blood Vessels and Ablation of Electrical Pathways Identified By the Three Dimensional Map (PCT title changed to above)	27290014	26-Apr-02	1383426	24-Dec-08
EP	Issued	Electrophysiology Catheter with Ablation Electrode	37835063	17-Nov-03	1562506	13-May-09
EP	Issued	Improved Braided Mesh Catheter	70760467	29-Mar-04	1905376	29-Sep-10
EP	Issued	Improved Braided Mesh Catheter	47585534	29-Mar-04	1613387	30-Jan-08
EP	Issued	Irrigated Catheter	57518672	17-May-05	1761187	30-Nov-11
EP	Issued	Catheter with Independent Proximal and Distal Control	931195374	3-Dec-93	605796	13-Aug-03
EP	Issued	Catheter with Independent Proximal and Distal Control and Actuator for Use with Same	1141456	3-Dec-93	1 046 406	15-Oct-03
EP	Issued	Steerable Electrode Catheter	969306885	23-Aug-96	787019	11-Feb-04

EP	Issued	Radio Frequency Energy Delivery System for Multipolar Electrode Catheters	969437052	27-Nov-96	866675	14-Oct-03
EP	Issued	Radio Frequency Energy Delivery System for Multipolar Electrode Catheters	30196463	27-Nov-96	1 366 724	11-Jan-06
EP	Issued	Rotatable Control Mechanism for Steerable Catheter	989117692	17-Mar-98	1019133	13-Aug-03
EP	Issued	Rotatable Control Mechanism for Steerable Catheter	12051041	17-Mar-98	1 197 240	22-Feb-06
EP	Issued	Slidable Control Mechanism for Steerable Catheter	989117700	17-Mar-98	1 019 138	7-Sep-05
EP	Issued	Steerable Catheter With Fixed Curve	971187125	28-Oct-97	839547	24-Sep-03
EP	Issued	Snap-Fit Distal Assembly for an Ablation Catheter	969404946	8-Nov-96	802771	11-Jun-03
EP	Issued	Device for Linear High Frequency Catheter Ablation of Myocardial Tissue	969195262	11-Apr-96	871404	5-Jul-00
EP	Issued	A Positively Anchored Retractable Tripolar Catheter for Endocardial Pacemaker Electrodes	918301169	26-Mar-91	452278	2-Nov-95
EP	Issued	An Adaptor Device for Electrode Catheter	928300839	25-Feb-92	506620	19-Apr-95
EP	Issued	An Actively Anchored Electrode for Electrode Catheter	928305242	25-Sep-92	0536096 B2	3-Jul-96
EP	Issued	Adaptor Device for Unipolar Electrode Catheters	938300217	22-Jan-93	574358	9-Apr-97
EP	Issued	An Electrode Catheter for Mapping and Operating on Cardiac Cavities	948300074	12-Jan-94	609182	9-Apr-97
EP	Issued	Adaptor Device for Electrode Catheter (also see Italian appln. no. B092A000233 filed 6/6/92)	958300907	10-Mar-95	672432	17-May-00
EP	Issued	Flexible, Kink Resistant, Low Friction Guidewire with Formable Tip, and Method for Making Same	999098577	4-Mar-99	1059955	8-Dec-04
EP	Issued	Pulmonary Vein Ablation Catheter	999152861	2-Apr-99	1071364	18-Aug-04

EP	Issued	System and Method for Gauging the Amount of Electrode-Tissue Contact using Pulsed Radio-Frequency Energy	9635442	14-Sep-00	1 241 007	31-May-05
EP	Issued	Method and Apparatus for Performing Cardiac Ablations	9381450	1-Jun-00	1189544	14-Jan-09
EP	Issued	Ablation Catheter	979208774	9-May-97	906064	5-Nov-03
EP	Issued	Intracardiac Grasp Catheter	999618580	23-Nov-99	1133264	22-Jul-09
EP	Issued	Internal Mechanism for Displacing a Slidable Electrode	999640550	1-Dec-99	1 135 078	16-Nov-05
EP	Issued	Steerable Catheter	9558768	23-Aug-00	1231973	8-Nov-06
EP	Issued	Steerable Catheter (Medical Device Having An Incrementally Displaceable Electrode)	9434028	6-Jul-00	1202772	8-Nov-06
EP	Pending	MRI Ablation Catheter	19354513	14-May-01		
EP	Pending	Apparatus and Methods for Mapping and Ablation in Electrophysiology Procedures	91601765	27-Apr-01		
EP	Pending	Handle Thumb Wheel Mechanism which Maintains Holding Forces when Stabilized	28018000	21-Oct-02		
EP	Pending	Improved Electrophysiology Loop Catheter	37816766	31-Oct-03		
EP	Pending	Mapping and Ablation Method for the Treatment of Ventricular Tachycardia	57496101	17-May-05		
EP	Pending	Electrophysiology System for Mapping and Ablating Arrhythmias	57499576	17-May-05		
EP	Pending	Tissue Ablation Device and Methods of Using (Mayo Medical Ventures)	27895994	13-Nov-02		
EP	Pending	Improved Braided Mesh Catheter	101634319	29-Mar-04		
EP	Issued	Multi-Color Display of Closely Proximate and Overlapping Cardiac Signals	47779723	9-Jul-04	EP 1 680 017	
EP	Pending	Irrigated Catheter	111687901	17-May-05		
EP	Pending	Methods and Apparatus for Configuring an Ablation Source of a Catheter	67362590	28-Feb-06		

EP	Pending	Method and Apparatus for Mapping and/or Ablation of Cardiac Tissue	57500225	17-May-05		
EP	Pending	Articulated Catheter	57510711	17-May-05		
EP	Pending	High Density Atrial Fibrillation Cycle Length (AFCL) Detection and Mapping System	57433245	3-May-05		
EP	Pending	Methods and Apparatus for Ablation of Cardiac Tissue	68484013	29-Dec-06		
EP	Pending	Methods of Assessing and Improving Electrode Contact with Cardiac Tissue	77965630	28-Jun-07		
EP	Pending	Rapid 3D Mapping using Multielectrode Position Data	87551990	8-May-08	EP2155057A4	
EP	Pending	Unknown Title		14-Oct-94		
EP	Pending	Medical Device Having an Incrementally Displaceable Electrode	90837672305	25-Jan-00		
EP	Pending	Apparatus for Creating a Continuous Annular Lesion	9599770	7-Sep-00	1210023	
EP	Pending	Medical Device Having an Incrementally Displaceable Electrode	9557521	17-Aug-00		
ES	Issued	Methods for Processing Electrocardiac Signals Having Superimposed Complexes	40163446	12-Jul-04	1 495 716	11-Feb-09
ES	Issued	Methods for Processing Electrocardiac Signals Having Superimposed Complexes	40254054	7-Nov-01	1510172	1-Jul-09
ES	Issued	Systems for Processing Electrocardiac Signals Having Superimposed Complexes	19970391	7-Nov-01	1331876	5-Aug-09
ES	Issued	Ablation Catheter	27172741	4-Jan-02	1 351 618	2-Nov-06
ES	Issued	Electrophysiology Catheter with Ablation Electrode	37835063	17-Nov-03	1562506	13-May-09
ES	Issued	Steerable Electrode Catheter	969306885	23-Aug-96	0 787 019	11-Feb-04
ES	Issued	Radio Frequency Energy Delivery System for Multipolar Electrode Catheters	30196463	27-Nov-96	1 366 724	11-Jan-06
ES	Issued	Radio Frequency Energy Delivery System for Multipolar Electrode Catheters	969437052	27-Nov-96	0 866 675	14-Oct-03

ES	Issued	Rotatable Control Mechanism for Steerable Catheter	989117692	17-Mar-98	1019133	13-Aug-03
ES	Issued	Rotatable Control Mechanism for Steerable Catheter	12051041	17-Mar-98	1 197 240	22-Feb-06
ES	Issued	Slidable Control Mechanism for Steerable Catheter	989117700	17-Mar-98	1 019 138	7-Sep-05
ES	Issued	Steerable Catheter With Fixed Curve	971187125	28-Oct-97	839547	24-Sep-03
ES	Issued	Snap-Fit Distal Assembly for an Ablation Catheter	969404946	8-Nov-96	802771	11-Jun-03
ES	Issued	An Actively Anchored Electrode for Electrode Catheter	928305242	25-Sep-92	536096	3-Jul-96
ES	Issued	Adaptor Device for Unipolar Electrode Catheters	938300217	22-Jan-93	574358	9-Apr-97
ES	Issued	An Electrode Catheter for Mapping and Operating on Cardiac Cavities	948300074	12-Jan-94	609182	9-Apr-97
ES	Issued	Adaptor Device for Electrode Catheter (also see Italian appln. no. B092A000233 filed 6/6/92)	958300907	10-Mar-95	672432	17-May-00
ES	Issued	Flexible, Kink Resistant, Low Friction Guidewire with Formable Tip, and Method for Making Same	999098577	4-Mar-99	1059955	8-Dec-04
ES	Issued	Pulmonary Vein Ablation Catheter	999152861	2-Apr-99	1 071 364	18-Aug-04
ES	Issued	System and Method for Gauging the Amount of Electrode-Tissue Contact using Pulsed Radio-Frequency Energy	9635442	14-Sep-00	1 241 007	1-Jun-05
ES	Issued	Method and Apparatus for Performing Cardiac Ablations	9381450	1-Jun-00	1189544	14-Jan-09
ES	Issued	Ablation Catheter	979208774	9-May-97	906064	5-Nov-03
ES	Issued	Intracardiac Grasp Catheter	999618580	23-Nov-99	1133264	22-Jul-09
ES	Issued	Intracardiac Grasp Catheter	999618580	23-Nov-99	1133264	22-Jul-09
ES	Issued	Internal Mechanism for Displacing a Slidable Electrode	999640550	1-Dec-99	1 135 078	16-Nov-05

ES	Issued	Steerable Catheter		23-Aug-00	1231973	8-Nov-06
ES	Issued	Steerable Catheter (Medical Device Having An Incrementally Displaceable Electrode)	9434028	6-Jul-00	1202772	8-Nov-06
ES	Pending	Device for Linear High Frequency Catheter Ablation of Myocardial Tissue	969195262	11-Apr-96	871404	
FR	Issued	Methods for Processing Electrocardiac Signals Having Superimposed Complexes	40163446	12-Jul-04	1 495 716	11-Feb-09
FR	Issued	Methods for Processing Electrocardiac Signals Having Superimposed Complexes	40254054	7-Nov-01	1510172	1-Jul-09
FR	Issued	Systems for Processing Electrocardiac Signals Having Superimposed Complexes	19970391	7-Nov-01	1331876	5-Aug-09
FR	Issued	Microelectrode Catheter for Mapping and Ablation	19932508	11-Dec-01	1 343 427	26-Jul-06
FR	Issued	Apparatus and Methods for Mapping and Ablation in Electrophysiology Procedures	50776848	24-Nov-05	1642544	8-Apr-09
FR	Issued	Apparatus and Methods for Mapping and Ablation in Electrophysiology Procedures	19349422	27-Apr-01	1284670	3-Jun-09
FR	Issued	Ablation Catheter	27172741	4-Jan-02	1 351 618	2-Nov-06
FR	Issued	Electrophysiology Catheter for Mapping and/or Ablation	27194034	29-Mar-02	1383567	28-Nov-07
FR	Issued	Handle Design for a Medical Catheter	27668326	26-Apr-02	1387641	19-Sep-07
FR	Issued	Method and Apparatus for Control of Ablation Energy and Electrogram Acquisition Through Multiple Common Electrodes in an Electrophysiology Catheter		17-Mar-03	1487366	8-Aug-07
FR	Issued	Method and Apparatus for Three-Dimensional Mapping of Electrical Activity in Blood Vessels and Ablation of Electrical Pathways Identified By the Three Dimensional Map (PCT title changed to above)	27290014	26-Apr-02	1383426	24-Dec-08

FR	Issued	Electrophysiology Catheter with Ablation Electrode	37835063	17-Nov-03	1562506	13-May-09
FR	Issued	Improved Braided Mesh Catheter	47585534	29-Mar-04	1613387	30-Jan-08
FR	Issued	Irrigated Catheter	57518672	17-May-05	1761187	30-Nov-11
FR	Issued	Catheter with Independent Proximal and Distal Control and Actuator for Use with Same	1141456	3-Dec-93	1 046 406	15-Oct-03
FR	Issued	Catheter with Independent Proximal and Distal Control	931195374	3-Dec-93	605796	13-Aug-03
FR	Issued	Steerable Electrode Catheter	969306885	23-Aug-96	0 787 019	11-Feb-04
FR	Issued	Radio Frequency Energy Delivery System for Multipolar Electrode Catheters	30196463	27-Nov-96	1 366 724	11-Jan-06
FR	Issued	Radio Frequency Energy Delivery System for Multipolar Electrode Catheters	969437052	27-Nov-96	0 866 675	14-Oct-03
FR	Issued	Rotatable Control Mechanism for Steerable Catheter	989117692	17-Mar-98	1019133	13-Aug-03
FR	Issued	Rotatable Control Mechanism for Steerable Catheter	12051041	17-Mar-98	1 197 240	22-Feb-06
FR	Issued	Slidable Control Mechanism for Steerable Catheter	989117700	17-Mar-98	1 019 138	7-Sep-05
FR	Issued	Steerable Catheter With Fixed Curve	971187125	28-Oct-97	839547	24-Sep-03
FR	Issued	Snap-Fit Distal Assembly for an Ablation Catheter	969404946	8-Nov-96	802771	11-Jun-03
FR	Issued	A Positively Anchored Retractable Tripolar Catheter for Endocardial Pacemaker Electrodes	918301169	26-Mar-91	452278	2-Nov-95
FR	Issued	An Adaptor Device for Electrode Catheter	928300839	25-Feb-92	506620	19-Apr-95
FR	Issued	An Actively Anchored Electrode for Electrode Catheter	928305242	25-Sep-92	536096	3-Jul-96
FR	Issued	Adaptor Device for Unipolar Electrode Catheters	938300217	22-Jan-93	574358	9-Apr-97

FR	Issued	An Electrode Catheter for Mapping and Operating on Cardiac Cavities	948300074	12-Jan-94	609182	9-Apr-97
FR	Issued	Adaptor Device for Electrode Catheter (also see Italian appln. no. B092A000233 filed 6/6/92)	958300907	10-Mar-95	672432	17-May-00
FR	Issued	Flexible, Kink Resistant, Low Friction Guidewire with Formable Tip, and Method for Making Same	999098577	4-Mar-99	1059955	8-Dec-04
FR	Issued	Pulmonary Vein Ablation Catheter	999152861	2-Apr-99	1 071 364	18-Aug-04
FR	Issued	System and Method for Gauging the Amount of Electrode-Tissue Contact using Pulsed Radio-Frequency Energy	9635442	14-Sep-00	1 241 007	31-May-05
FR	Issued	Method and Apparatus for Performing Cardiac Ablations	9381450	1-Jun-00	1189544	14-Jan-09
FR	Issued	Ablation Catheter	979208774	9-May-97	906064	5-Nov-03
FR	Issued	Intracardiac Grasp Catheter	999618580	23-Nov-99	1133264	22-Jul-09
FR	Issued	Internal Mechanism for Displacing a Slidable Electrode	999640550	1-Dec-99	1 135 078	16-Nov-05
FR	Issued	Steerable Catheter		23-Aug-00	1231973	8-Nov-06
FR	Issued	Steerable Catheter (Medical Device Having An Incrementally Displaceable Electrode)	9434028	6-Jul-00	1202772	8-Nov-06
FR	Pending	Methods and Apparatus for Ablation of Cardiac Tissue	68484013	29-Dec-06		
FR	Pending	Device for Linear High Frequency Catheter Ablation of Myocardial Tissue	969195262	11-Apr-96	871404	
GB	Issued	Methods for Processing Electrocardiac Signals Having Superimposed Complexes	40163446	12-Jul-04	1 495 716	11-Feb-09
GB	Issued	Methods for Processing Electrocardiac Signals Having Superimposed Complexes	40254054	7-Nov-01	1510172	1-Jul-09
GB	Issued	Systems for Processing Electrocardiac Signals Having Superimposed Complexes	19970391	7-Nov-01	1331876	5-Aug-09

GB	Issued	Microelectrode Catheter for Mapping and Ablation	19932508	11-Dec-01	1 343 427	26-Jul-06
GB	Issued	Apparatus and Methods for Mapping and Ablation in Electrophysiology Procedures	50776848	24-Nov-05	1642544	8-Apr-09
GB	Issued	Apparatus and Methods for Mapping and Ablation in Electrophysiology Procedures	19349422	27-Apr-01	1284670	3-Jun-09
GB	Issued	Ablation Catheter	27172741	4-Jan-02	1 351 618	2-Nov-06
GB	Issued	Electrophysiology Catheter for Mapping and/or Ablation	27194034	29-Mar-02	1383567	28-Nov-07
GB	Issued	Handle Design for a Medical Catheter	27668326	26-Apr-02	1387641	19-Sep-07
GB	Issued	Method and Apparatus for Control of Ablation Energy and Electrogram Acquisition Through Multiple Common Electrodes in an Electrophysiology Catheter		17-Mar-03	1487366	8-Aug-07
GB	Issued	Method and Apparatus for Three-Dimensional Mapping of Electrical Activity in Blood Vessels and Ablation of Electrical Pathways Identified By the Three Dimensional Map (PCT title changed to above)	27290014	26-Apr-02	1383426	24-Dec-08
GB	Issued	Electrophysiology Catheter with Ablation Electrode	37835063	17-Nov-03	1562506	13-May-09
GB	Issued	Improved Braided Mesh Catheter	47585534	29-Mar-04	1613387	30-Jan-08
GB	Issued	Irrigated Catheter	57518672	17-May-05	1761187	30-Nov-11
GB	Issued	Catheter with Independent Proximal and Distal Control and Actuator for Use with Same	1141456	3-Dec-93	1 046 406	15-Oct-03
GB	Issued	Catheter with Independent Proximal and Distal Control	931195374	3-Dec-93	605796	13-Aug-03
GB	Issued	Steerable Electrode Catheter	969306885	23-Aug-96	0 787 019	11-Feb-04
GB	Issued	Radio Frequency Energy Delivery System for Multipolar Electrode Catheters	30196463	27-Nov-96	1 366 724	11-Jan-06

GB	Issued	Radio Frequency Energy Delivery System for Multipolar Electrode Catheters	969437052	27-Nov-96	0 866 675	14-Oct-03
GB	Issued	Rotatable Control Mechanism for Steerable Catheter	989117692	17-Mar-98	1019133	13-Aug-03
GB	Issued	Rotatable Control Mechanism for Steerable Catheter	12051041	17-Mar-98	1 197 240	22-Feb-06
GB	Issued	Slidable Control Mechanism for Steerable Catheter	989117700	17-Mar-98	1 019 138	7-Sep-05
GB	Issued	Steerable Catheter With Fixed Curve	971187125	28-Oct-97	839547	24-Sep-03
GB	Issued	Snap-Fit Distal Assembly for an Ablation Catheter	969404946	8-Nov-96	802771	11-Jun-03
GB	Issued	A Positively Anchored Retractable Tripolar Catheter for Endocardial Pacemaker Electrodes	918301169	26-Mar-91	452278	2-Nov-95
GB	Issued	An Adaptor Device for Electrode Catheter	928300839	25-Feb-92	506620	19-Apr-95
GB	Issued	An Actively Anchored Electrode for Electrode Catheter	928305242	25-Sep-92	536096	3-Jul-96
GB	Issued	Adaptor Device for Unipolar Electrode Catheters	938300217	22-Jan-93	574358	9-Apr-97
GB	Issued	An Electrode Catheter for Mapping and Operating on Cardiac Cavities	948300074	12-Jan-94	609182	9-Apr-97
GB	Issued	Adaptor Device for Electrode Catheter (also see Italian appln. no. B092A000233 filed 6/6/92)	958300907	10-Mar-95	672432	17-May-00
GB	Issued	Flexible, Kink Resistant, Low Friction Guidewire with Formable Tip, and Method for Making Same	999098577	4-Mar-99	1059955	8-Dec-04
GB	Issued	Pulmonary Vein Ablation Catheter	999152861	2-Apr-99	1 071 364	18-Aug-04
GB	Issued	System and Method for Gauging the Amount of Electrode-Tissue Contact using Pulsed Radio-Frequency Energy	9635442	14-Sep-00	1 241 007	31-May-05
GB	Issued	Method and Apparatus for Performing Cardiac Ablations	9381450	1-Jun-00	1189544	14-Jan-09

GB	Issued	Ablation Catheter	979208774	9-May-97	906064	5-Nov-03
GB	Issued	Intracardiac Grasp Catheter	999618580	23-Nov-99	1133264	22-Jul-09
GB	Issued	Internal Mechanism for Displacing a Slidable Electrode	999640550	1-Dec-99	1 135 078	16-Nov-05
GB	Issued	Steerable Catheter		23-Aug-00	1231973	8-Nov-06
GB	Issued	Steerable Catheter (Medical Device Having An Incrementally Displaceable Electrode)	9434028	6-Jul-00	1202772	8-Nov-06
GB	Pending	Methods and Apparatus for Ablation of Cardiac Tissue	68484013	29-Dec-06		
GB	Pending	Device for Linear High Frequency Catheter Ablation of Myocardial Tissue	969195262	11-Apr-96	871404	
IE	Issued	Method and Apparatus for Performing Cardiac Ablations	9381450	1-Jun-00	1189544	14-Jan-09
IE	Pending	Catheter with Contoured Ablation Electrode	247389	31-Jul-89		
IT	Issued	A Positively Anchored Retractable Tripolar Catheter for Endocardial Pacemaker Electrodes	3433A90	5-Apr-90	1238542	18-Aug-93
IT	Issued	An Improvement to an Actively Anchored Electrode for Electrode Catheters (also see Italian patent appln. no. B091A0351 filed 10/02/91)	B093U000092	27-Apr-93	232894	21-Jan-00
IT	Issued	An Improvement to an Adaptor Device for Electrode Catheters (also see Italian appln. no. B092A000233 filed 6/6/92)	B094A000102	15-Mar-94	1273836	10-Jul-97
IT	Issued	Methods for Processing Electrocardiac Signals Having Superimposed Complexes	40163446	12-Jul-04	1 495 716	11-Feb-09
IT	Issued	Methods for Processing Electrocardiac Signals Having Superimposed Complexes	40254054	7-Nov-01	1510172	1-Jul-09
IT	Issued	Systems for Processing Electrocardiac Signals Having Superimposed Complexes	19970391	7-Nov-01	1331876	5-Aug-09
IT	Issued	Ablation Catheter	35450BE2006	4-Jan-02	1 351 618	2-Nov-06
IT	Issued	Electrophysiology Catheter with Ablation Electrode	37835063	17-Nov-03	1562506	13-May-09

IT	Issued	Steerable Electrode Catheter	24645BE2004	23-Aug-96	0 787 019	11-Feb-04
IT	Issued	Radio Frequency Energy Delivery System for Multipolar Electrode Catheters	30196463	27-Nov-96	1 366 724	11-Jan-06
IT	Issued	Radio Frequency Energy Delivery System for Multipolar Electrode Catheters	969437052	27-Nov-96	0 866 675	14-Oct-03
IT	Issued	Rotatable Control Mechanism for Steerable Catheter	989117692	17-Mar-98	1019133	13-Aug-03
IT	Issued	Rotatable Control Mechanism for Steerable Catheter	12051041	17-Mar-98	1 197 240	22-Feb-06
IT	Issued	Slidable Control Mechanism for Steerable Catheter	989117700	17-Mar-98	31045/BE/2005	7-Sep-05
IT	Issued	Steerable Catheter With Fixed Curve	971187125	28-Oct-97	839547	24-Sep-03
IT	Issued	Snap-Fit Distal Assembly for an Ablation Catheter	969404946	8-Nov-96	802771	11-Jun-03
IT	Issued	An Actively Anchored Electrode for Electrode Catheter	928305242	25-Sep-92	536096	3-Jul-96
IT	Issued	An Actively Anchored Electrode for Electrode Catheter	B091A000351	2-Oct-91	1253047	10-Jul-95
IT	Issued	An Electrode Catheter for Mapping and Operating on Cardiac Cavities	948300074	12-Jan-94	609182	9-Apr-97
IT	Issued	An Electrode Catheter for Mapping and Operating on Cardiac Cavities	B093A000008	18-Jan-93	1266217	27-Dec-96
IT	Issued	Adaptor Device for Electrode Catheter (also see Italian appln. no. B092A000233 filed 6/6/92)	958300907	10-Mar-95	672432	17-May-00
IT	Issued	Flexible, Kink Resistant, Low Friction Guidewire with Formable Tip, and Method for Making Same	999098577	4-Mar-99	1059955	8-Dec-04
IT	Issued	Pulmonary Vein Ablation Catheter	999152861	2-Apr-99	1 071 364	18-Aug-04
IT	Issued	System and Method for Gauging the Amount of Electrode-Tissue Contact using Pulsed Radio-Frequency Energy	9635442	14-Sep-00	1 241 007	31-May-05

IT	Issued	Method and Apparatus for Performing Cardiac Ablations	9381450	1-Jun-00	1189544	14-Jan-09
IT	Issued	Intracardiac Grasp Catheter	999618580	23-Nov-99	1133264	22-Jul-09
IT	Issued	Internal Mechanism for Displacing a Slidable Electrode	999640550	1-Dec-99	1 135 078	16-Nov-05
IT	Issued	Steerable Catheter		23-Aug-00	1231973	8-Nov-06
IT	Issued	Steerable Catheter (Medical Device Having An Incrementally Displaceable Electrode)	9434028	6-Jul-00	1202772	8-Nov-06
IT	Pending	Device for Linear High Frequency Catheter Ablation of Myocardial Tissue	969195262	11-Apr-96	871404	
JP	Issued	Electrophysiology Catheter for Mapping and/or Ablation	2002585017	29-Mar-02	4279559	19-Mar-09
JP	Issued	Method and Apparatus for Three-Dimensional Mapping of Electrical Activity in Blood Vessels and Ablation of Electrical Pathways Identified By the Three Dimensional Map (PCT title changed to above)	2002584793	26-Apr-02	4344140	17-Jul-09
JP	Issued	Improved Braided Mesh Catheter	2006509442	29-Mar-04	4728224	22-Apr-11
JP	Issued	Multi-Color Display of Closely Proximate and Overlapping Cardiac Signals	2006520246	9-Jul-04	4336712	3-Jul-09
JP	Issued	Catheter with Independent Proximal and Distal Control and Actuator for Use with Same	5304392	3-Dec-93	3526598	27-Feb-04
JP	Issued	Catheter with Independent Proximal and Distal Control and Actuator for Use with Same	9502225	6-Jun-96	3830521	21-Jul-06
JP	Issued	7F Dynamic Tip Catheter (Steerable Electrode Catheter)	9510648	23-Aug-96	3789479	7-Apr-06
JP	Issued	Radio Frequency Energy Delivery System for Multipolar Electrode Catheters	9521497	27-Nov-96	3746521	2-Dec-05
JP	Issued	Steerable Catheter With Fixed Curve	97295210	28-Oct-97	3066827	19-May-00

JP	Issued	Method and Apparatus for Performing Cardiac Ablations	2001501096	1-Jun-00	4243058	9-Jan-09
JP	Issued	Apparatus for Creating a Continuous Annular Lesion	2001521245	4-Mar-01	4608163	15-Oct-10
JP	Pending	Methods for Processing Electrocardiac Signals Having Superimposed Complexes	2004204650	12-Jul-04		
JP	Pending	Active Counterforce Handle for Use in Bidirectional Deflectable Tip Instruments		23-Oct-01		
JP	Pending	MRI Ablation Catheter	2001583644	14-May-01		
JP	Pending	Apparatus and Methods for Mapping and Ablation in Electrophysiology Procedures	2001579692	27-Apr-01		
JP	Pending	Ablation Catheter	2002560530	11-Jul-03		
JP	Pending	Handle Thumb Wheel Mechanism which Maintains Holding Forces when Stabilized	2003535861	21-Oct-02		
JP	Pending	Improved Electrophysiology Loop Catheter	2004548623	31-Oct-03		
JP	Pending	Software Controlled Electrophysiology Data Management	2003526281	20-Sep-01		
JP	Pending	Handle Design for a Medical Catheter	2002584810	26-Apr-02		
JP	Pending	Mapping and Ablation Method for the Treatment of Ventricular Tachycardia	2007527342	17-May-05		
JP	Pending	Electrophysiology System for Mapping and Ablating Arrhythmias	2007527341	17-May-05		
JP	Pending	Electrophysiology Catheter with Ablation Electrode	2003553704	17-Nov-03		
JP	Pending	Tissue Ablation Device and Methods of Using (Mayo Medical Ventures)	2003543490	13-Nov-02		
JP	Pending	Tissue Ablation Device and Methods of Using (Mayo Medical Ventures)	2010161128	13-Nov-02		
JP	Pending	Irrigated Catheter	2007527444	17-May-05		
JP	Pending	Irrigated Catheter	2011170816	17-May-05		
JP	Pending	High Density Atrial Fibrillation Cycle Length (AFCL) Detection and Mapping System	2007527269	3-May-05		

JP	Pending	Methods and Apparatus for Ablation of Cardiac Tissue	2008548785	29-Dec-06		
JP	Pending	Rapid 3D Mapping using Multielectrode Position Data	2010507673	8-May-08		
JP	Pending	Catheter with Contoured Ablation Electrode	20017389	1-Aug-89		
JP	Pending	Rotatable Control Mechanism for Steerable Catheter	10540755	17-Mar-98		
JP	Pending	Slidable Control Mechanism for Steerable Catheter	10540756	17-Mar-98		
JP	Pending	Snap-Fit Distal Assembly for an Ablation Catheter	97518408	8-Nov-96		
JP	Pending	Device for Linear High Frequency Catheter Ablation of Myocardial Tissue	9521587	11-Apr-96		
JP	Pending	Flexible, Kink Resistant, Low Friction Guidewire with Formable Tip	2000534265	4-Mar-99		
JP	Pending	Ablation Catheter	54064197	9-May-97		
JP	Pending	Internal Mechanism for Displacing a Slidable Electrode		1-Dec-99		
JP	Pending	Displaceable Ablation Electrode	2000508884	11-Jul-00		
MX	Issued	Method and Appartus for Performing Cardiac Ablations	PAa2001012356	1-Jun-00	234603	1-Mar-06
MX	Issued	Apparatus for Creating a Continuous Annular Lesion	PAa2002001776	7-Sep-00	247043	3-Jul-07
MX	Pending	Active Counterforce Handle for Use in Bidirectional Deflectable Tip Instruments		23-Oct-01		
MX	Pending	Rotatable Control Mechanism for Steerable Catheter	998470	17-Mar-98		
MX	Pending	Apparatus for Creating a Continuous Annular Lesion	MXA2007008135	7-Sep-00		
MX	Pending	Internal Mechanism for Displacing a Slidable Electrode	PAa2001005519	1-Jun-01		
NL	Issued	An Actively Anchored Electrode for Electrode Catheter	928305242	25-Sep-92	536096	3-Jul-96

NL	Issued	Adaptor Device for Unipolar Electrode Catheters	938300217	22-Jan-93	574358	9-Apr-97
NL	Issued	An Electrode Catheter for Mapping and Operating on Cardiac Cavities	948300074	12-Jan-94	609182	9-Apr-97
NL	Issued	Flexible, Kink Resistant, Low Friction Guidewire with Formable Tip, and Method for Making Same	999098577	4-Mar-99	1059955	8-Dec-04
NL	Pending	Device for Linear High Frequency Catheter Ablation of Myocardial Tissue	969195262	11-Apr-96	871404	
SE	Issued	Adaptor Device for Unipolar Electrode Catheters	938300217	22-Jan-93	574358	9-Apr-97
SE	Issued	An Electrode Catheter for Mapping and Operating on Cardiac Cavities	948300074	12-Jan-94	609182	9-Apr-97
US	Issued	Methods for Processing Electrocardiac Signals Having Superimposed Complexes	10005470	7-Nov-01	US6968227B2	Sep 13 2005
US	Issued	Methods for Processing Electrocardia Signals Having Superimposed Complexes	10618441	11-Jul-03	6944495	Sep 13 2005
US	Issued	Rapid 3D Mapping using Multielectrode Position Data	12117654	8-May-08	US8224432B2	Sep 25 2012
US	Issued	System for Relocating Catheter-Supported Electrodes on Segmented Model	12337508	17-Dec-08	8306612	Nov 6 2012
US	Allowed	Method and Apparatus for Performing Cardiac Ablations	12254551	20-Oct-08	USRE42724E1	
US	Issued	Method for the Detection of Intracardiac Electrical Potential Fields			4649924	17-Mar-87
US	Issued	Systems for Processing Electrocardiac Signals Having Superimposed Complexes	10398089	27-Nov-01	7272437	18-Sep-07
US	Issued	Active Counterforce Handle for Use in Bidirectional Deflectable Tip Instruments	9725606	29-Nov-00	6663588	16-Dec-03
US	Issued	Tip Deflectible Catheter with Active Counter Force Handle	10735458	11-Dec-03	7524301	28-Apr-09

US	Issued	Microelectrode Catheter for Mapping and Ablation	10450275	11-Dec-01	7047068	16-May-06
US	Issued	Apparatus and Methods for Mapping and Ablation in Electrophysiology Procedures	9845022	27-Apr-01	6837886B2	4-Jan-05
US	Issued	Apparatus and Methods for Mapping and Ablation in Electrophysiology Procedure	10939630	13-Sep-04	7306594	11-Dec-07
US	Issued	Apparatus and Methods for Mapping and Ablation in Electrophysiology Procedure	11978066	26-Oct-07	8157796	17-Apr-12
US	Issued	Ablation Catheter	10250854	4-Jan-02	6974457	13-Dec-05
US	Issued	Handle Thumb Wheel Mechanism which Maintains Holding Forces when Sterilized and when engaged	10488856	21-Oct-02	7604611	20-Oct-09
US	Issued	Method And Apparatus For Altering Conduction Properties In The Heart And In Adjacent Vessels	10475915	15-Mar-02	7727229	1-Jun-10
US	Issued	Electrophysiology Catheter for Mapping and/or Ablation	10475942	29-Mar-02	7300438	27-Nov-07
US	Issued	Handle Design for a Medical Catheter	10475941	27-Apr-02	7331958	19-Feb-08
US	Issued	Method and Apparatus for Control of Ablation Energy and Electrogram Acquisition Through Multiple Common Electrodes in an Electrophysiology Catheter	10507874	17-Mar-03	7846157	7-Dec-10
US	Issued	Method and Apparatus for Three-Dimensional Mapping of Electrical Activity in Blood Vessels and Ablation of Electrical Pathways Identified By the Three Dimensional Map (PCT title changed to above)	10475912	26-Apr-02	7255695	14-Aug-07
US	Issued	Tissue Ablation Device and Methods of Using	10008005	13-Nov-01	6669693	30-Dec-03

US	Issued	Method and Apparatus for Selecting Operating Parameter Values in Electrophysiology Procedures	10551294	29-Mar-04	7922714B2	12-Apr-11
US	Issued	Braided Mesh Catheter	10551277	29-Mar-04	7722604	25-May-10
US	Issued	Junction of Catheter Tip and Electrode	10551289	21-Aug-06	7686802	30-Mar-10
US	Issued	MULTI-COLOR OVERLAY SYSTEM FOR PROCESSING AND DISPLAYING ELECTROCARDIAC SIGNALS	11383058	12-May-06	7966062	21-Jun-11
US	Issued	Method and Apparatus for Mapping and/or Ablation of Cardiac Tissue	11596403	17-May-05	8249685	21-Aug-12
US	Issued	Articulated Catheter	10536109	22-Jan-08	8007462	30-Aug-11
US	Issued	Optimization Method for Cardiac Resynchronization Therapy	10629881	29-Jul-03	6978184	20-Dec-05
US	Issued	Rapid 3D Mapping using Multielectrode Position Data	13209232	12-Aug-11	8275452	25-Sep-12
US	Issued	Passively Self-Cooled Electrode Design for Ablation Catheter	9821490	29-Mar-01	6569162	27-May-03
US	Issued	Core Wire Steerable Catheters	906538	30-Jun-92	5318041	7-Jun-94
US	Issued	Steerable Electrode Catheter	595467	10-Oct-90	5125896	30-Jun-92
US	Issued	Core Wire Steerable Catheters	927868	10-Aug-92	5277199	11-Jan-94
US	Issued	Catheter with Independent Proximal and Distal Control	987750	4-Dec-92	5383852	24-Jan-95
US	Issued	7F Dynamic Tip Catheter (Steerable Electrode Catheter) - CIP	8518521	23-Aug-95	5611777	18-Mar-97
US	Issued	Steerable Electrode Catheter	8736321	23-Oct-96	5935102	10-Aug-99
US	Issued	Actuator for Use with Steerable Catheter (FX catheter handle)	84549	29-Jun-93	5462527	31-Oct-95
US	Issued	Bidirectional Steerable Catheter	478206	7-Jun-95	5715817	10-Feb-98

US	Issued	RF Energy Delivery System for Multipolar Electrode Catheters	8569771	8-Dec-95	5837001	17-Nov-98
US	Issued	RF Energy Delivery System for Multipolar Electrode Catheters	8874958	13-Jun-97	5931835	3-Aug-99
US	Issued	Rotatable Control Mechanism for Steerable Catheter	8818353	17-Mar-97	5904667	18-May-99
US	Issued	Slidable Control Mechanism for Steerable Catheter	8818352	17-Mar-97	5944690	31-Aug-99
US	Issued	Steerable Catheter With Fixed Curve	8739145	28-Oct-96	5779669	14-Jul-98
US	Issued	Steerable Catheter With Fixed Curve	9018223	3-Feb-98	5931811	3-Aug-99
US	Issued	Snap-Fit Distal Assembly for an Ablation Catheter	8555847	10-Nov-95	5685878	11-Nov-97
US	Issued	An Adaptor Device for Electrode Catheter	840887	25-Feb-92	5314460	24-May-94
US	Issued	An Actively Anchored Electrode for Electrode Catheter	954579	30-Sep-92	5314461	24-May-94
US	Issued	Adaptor Device for Unipolar Electrode Catheters	3440	12-Jan-93	5336251	9-Aug-94
US	Issued	An Electrode Catheter for Mapping and Operating on Cardiac Cavities	180683	13-Jan-94	5482037	9-Jan-96
US	Issued	Flexible, Kink Resistant, Low Friction Guidewire with Formable Tip	9257425	25-Feb-99	6245030	12-Jun-01
US	Issued	Pulmonary Vein Ablation Catheter	9061421	16-Apr-98	6064902	16-May-00
US	Issued	System and Method for Gauging the Amount of Electrode-Tissue Contact Using Pulsed Radio Frequency Energy	9405246	24-Sep-99	6264653	24-Jul-01
US	Issued	Method and Apparatus for Performing Cardiac Ablations	9325230	3-Jun-99	6616655	9-Sep-03

US	Issued	Medical Device Having an Incrementally Displaceable Electrode	9346094	1-Jul-99	6461356B1	8-Oct-02
US	Issued	Tricuspid Annular Grasp Catheter	9197812	23-Nov-98	6319250	20-Nov-01
US	Issued	Intracardiac Grasp Catheter	9434599	5-Nov-99	6572611	3-Jun-03
US	Issued	Intracardiac Grasp Catheter	10041243	8-Jan-02	6638278	28-Oct-03
US	Issued	Tricuspid Annular Grasp Catheter	10234675	3-Sep-02	6916317	12-Jul-05
US	Issued	Apparatus for Creating a Continuous Annular Lesion	9396502	10-Sep-99	6315778	13-Nov-01
US	Issued	Internal Mechanism for Displacing a Slidable Electrode	9203922	2-Dec-98	6178354	23-Jan-01
US	Issued	Displaceable Ablation Electrode	9351517	12-Jul-99	6451016	17-Sep-02
US	Issued	Steerable Catheter	9447440	22-Nov-99	6224587	1-May-01
US	Issued	Steerable Catheter	9349451	8-Jul-99	6783510	31-Aug-04
US	Issued	Steerable Catheter	10929629	30-Aug-04	7232422	19-Jun-07
US	Issued	Medical Device Having an Incrementally Displaceable Electrode	9453732	2-Dec-99	6464698B1	15-Oct-02
US	Issued	Device for the Linear High-Frequency Catheter Ablation of Endomyocardial Tissue	9091120	17-Jul-98	6113595	5-Sep-00
US	Issued	Adaptor Device for Electrode Catheters (also see Italian appln. no. B092A000233 filed 6/6/92)	401877	10-Mar-95	5507787	16-Apr-96
US	Issued	Ablation Catheter	9180636	11-Nov-98	6245066	12-Jun-01
US	Issued	Ablation Catheter	9832548	11-Apr-01	6544263	8-Apr-03
US	Pending	MRI Ablation Catheter	10275727	14-May-01		
US	Pending	Telescoping Tip Electrode Catheter	10475618	22-Apr-02		

US	Pending	METHODS AND APPARATUS FOR FORMING CARDIAC LESIONS AND ASSESSING LESION QUALITY	12785970	24-May-10		
US	Pending	Electrophysiology Catheter for Mapping and/or Ablation	11974340	12-Oct-07	US8206384B2	
US	Pending	Electrophysiology Loop Catheter	10533596	31-Oct-03		
US	Pending	Electrophysiology Loop Catheter	13668618	5-Nov-12		
US	Pending	Software Contolled Electrophysiology Data Management	9943408	30-Aug-01	US6941166B2	
US	Pending	Mapping and Ablation Method for the Treatment of Ventricular Tachycardia	11597082	17-May-05		
US	Pending	Method and Apparatus for Adjusting Electrode Dimensions	10551293	29-Mar-04		
US	Pending	Methods and Apparatus for Configuring an Ablation Source of a Catheter	11885214	28-Feb-06		
US	Pending	High Density Atrial Fibrillation Cycle Length (AFCL) Mapping Systems and Methods	11120633	2-May-05		
US	Pending	High Density Atrial Fibrillation Cycle Length (AFCL) Mapping Systems and Methods	11132154	17-May-05		
US	Pending	High Density Atrial Fibrillation Cycle Length (AFCL) Detection and Mapping System	11120633	2-May-05		
US	Pending	High Density Atrial Fibrillation Cycle Length (AFCL) Detection and Mapping System	12418601	5-Apr-09		
US	Pending	High Density Atrial Fibrillation Cycle Length (AFCL) Detection and Mapping System	12418601	1-Nov-12		

US	Pending	High Density Atrial Fibrillation Cycle Length (AFCL) Detection and Mapping System	13666652	1-Nov-12		
US	Pending	Methods and Apparatus for Ablation of Cardiac Tissue	12087176	29-Dec-06		
US	Pending	IRRIGATED CATHETER	61734905	7-Dec-12		
US	Pending	Core Wire Steerable Catheters	583528	17-Oct-90		
US	Pending	Internal Mechanism for Displacing a Slidable Electrode		12-Apr-00		
US	Pending	Displaceable Ablation Electrode	9351517	12-Jul-99		
US	Pending	Ablation Catheter		2-Oct-00		
US	Published	ELECTROPHYSIOLOGY CATHETER FOR MAPPING AND/OR ABLATION	13487907	4-Jun-12		
US	Published	Irrigated Catheter	11596722	17-May-05	vv	
US	Published	Method and Apparatus for Mapping and/or Ablation of Cardiac Tissue	13456573	26-Apr-12		
US	Published	ARTICULATED CATHETER	13185488	18-Jul-11		
US	Published	Methods and apparatus for assessing and improving electrode contact with cardiac tissue	12308862	28-Jun-07		
US	Published	SYSTEM AND METHOD FOR PREDICTING LESION SIZE SHORTLY AFTER ONSET OF RF ENERGY DELIVERY	12882780	15-Sep-10		
US	Published	MEANS FOR SECURING A CATHETER INTO A VESSEL	13186192	19-Jul-11	US2012/007807 8A1	
WO	Published	MEANS FOR SECURING A CATHETER INTO A VESSEL	PCTUS201104 4544	19-Jul-11		
	Published	METHODS OF USING A CATHETER HAVING A BRAIDED CONDUCTIVE MEMBER	US13414018A	3/7/2012	US2012016581 5A1	