

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Vivant LLC	04/02/2013
RECEIVING PARTY DATA	
Name:	COVIDIEN LP
Street Address:	15 HAMPSHIRE STREET
City:	MANSFIELD
State/Country:	MASSACHUSETTS
Postal Code:	02048
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13430810
CORRESPONDENCE DATA	
Fax Number:	3035816632
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	303-530-2300
Email:	ebd.iplegal@covidien.com
Correspondent Name:	Covidien LP
Address Line 1:	5920 Longbow Drive
Address Line 2:	Attn: IP Legal
Address Line 4:	Boulder, COLORADO 80301
ATTORNEY DOCKET NUMBER:	H-US-02277
NAME OF SUBMITTER:	Eleanor Vigil
Signature:	/Eleanor Vigil/
Date:	04/08/2013
Total Attachments: 50	

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ASSIGNMENT

WHEREAS, Vivant LLC (hereinafter, the "Assignor"), a Delaware Limited Liability Company, having a place of business at 5920 Longbow Drive, Boulder, Colorado 80301 and, the owner of all right, title and interest in and to the patents and patent applications listed in Schedule A attached hereto and incorporated herein; and

WHEREAS, Covidien LP (hereinafter, the "Assignee"), a Delaware Limited Partnership, having a place of business at 15 Hampshire Street, Mansfield, MA 02048, is desirous of acquiring said patents and patent applications listed in Schedule A;

WHEREAS, by Action of a Certificate of Conversion dated as of December 26, 2012, Pursuant to Sections 103 and 266 of the General Corporation Law of the State of Delaware and Sections 18-204 and 18-214 of the Delaware Limited Liability Company Act, Vivant Medical, Inc. was converted into Assignor;

WHEREAS, Assignor hereby conveys and assigns to the Assignee, and the successors, assigns and legal representatives of the Assignee, and Assignee hereby accepts from Assignor, Assignor's entire right, title and interest in and to said patents and patent applications listed in Schedule A, including the right to sue for present, past and future infringement, in the United States, its territorial possessions, and in all foreign countries, including all treaty and convention rights in and to said patents and patent applications listed in Schedule A.

WHEREAS, Assignor represents and warrants to Assignee that:

- (a) Assignor has the right, power and authority to enter into this Assignment;
- (b) Assignor is the exclusive owner of all right, title and interest, including all intellectual property rights, in said patents and patent applications listed in Schedule A;
- (c) The patents and patent applications listed in Schedule A are free of any liens, security interests, encumbrances or licenses;
- (d) There are no claims, pending or threatened, with respect to Assignor's rights in said patents and patent applications listed in Schedule A;

(e) This Assignment is valid, binding and enforceable in accordance with its terms;
and

(f) Assignor is not subject to any agreement, judgment or order inconsistent with the terms of this Assignment.

NOW THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, Assignor does hereby irrevocably assign, sell and transfer unto the Assignee, all of its right, title and interest in and to said patents and patent applications listed in Schedule A in the United States and all jurisdictions outside the United States (including, all divisional, continuation, continuation-in-part, substitute, renewal, reissue, re-examinations, and all other applications for patent which have been or shall be filed in the United States, including all provisional and non-provisional applications, and all foreign countries relating to such patents and patent applications; all original and reissued or re-examined patents which have been or shall be issued in the United States and all foreign countries for such patents and patent applications; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on the patents and patent applications, and any priority right that may arise from said patents and patent applications listed in Schedule A), the same to be held and enjoyed by Assignee as fully and entirely as said interest could have been held and enjoyed by Assignor had this sale, assignment, transfer and conveyance not been made. Assignor authorizes the Commissioner of Patents of the United States and other empowered officials of the United States Patent and Trademark Office and in any applicable jurisdictions outside the United States to record the transfer ownership of the patents and patent applications set forth on Schedule A to Assignee as assignee of Assignor's entire right, title and interest therein. Assignor agrees to further execute any documents reasonably necessary to effect this assignment or to confirm Assignee's entire right, title and interest in and to said patents and patent applications listed in Schedule A.

This assignment by Assignor to Assignee of its entire right, title and interest in and to said patents and patent applications listed in Schedule A, shall be effective as of the date hereof.

This Agreement shall be governed by the laws of the State of Delaware, without

regard to the principles of conflicts of law thereof.

This Assignment contains the entire understanding between the parties hereto with respect to its subject matter and supersedes any prior or contemporaneous written or oral assignments, representations or warranties between them respecting the subject matter hereof.

This Assignment may be amended only by a writing signed by both parties.

If any term, provision, covenant or condition of this Assignment, or the application thereof to any person, place or circumstance, shall be held by a court of competent jurisdiction to be invalid, unenforceable or void, the remainder of this Assignment and such term, provision, covenant or condition as applied to other persons, places and circumstances shall remain in full force and effect.

Assignor agrees to perform any further acts and execute and deliver any documents that may be reasonably necessary to carry out the provisions of this Assignment.

Vivant LLC

Signature:



Name: JOHN W. KARPLES

Type or print the name of the person authorized to sign on behalf of ASSIGNOR (Vivant LLC)

Date:

4/2/13

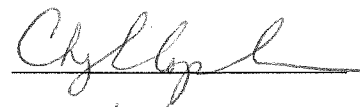
Title: SECRETARY

Note: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added

WITNESS:

Signature:



Date:

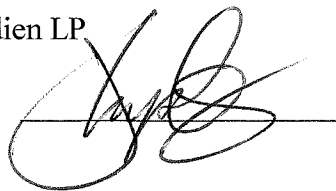
4/2/13

Location: MANSFIELD, MA

ACCEPTED:

Covidien LP

By:



Title:

SECRETARY

SCHEDULE A

Issued US Patents

Govdlen Docket No.	Serial number	Title	Filing date	Issue date	Issue number
ISSUED US PATENTS					
H-US-00499	09/145487	PERCUTANEOUS TISSUE REMOVAL DEVICE	9/1/1998	10/24/2000	6136014
H-US-00501 CIP	09/184766	EXPANDABLE RING PERCUTANEOUS TISSUE REMOVAL DEVICE	11/2/1998	3/14/2000	6036698
H-US-00503	09/336371	MODULAR BIOPSY AND MICROWAVE ABLATION NEEDLE DELIVERY APPARATUS ADAPTED TO IN SITU ASSEMBLY AND METHOD OF USE	6/17/1999	10/23/2001	6306132
H-US-00503 CIP	09/356077	TRACK ABLATION DEVICE AND METHODS OF USE	7/16/1999	3/12/2002	6355033
H-US-00501 CIP CON	09/449006	EXPANDABLE RING PERCUTANEOUS TISSUE REMOVAL DEVICE	11/24/1999	10/29/2002	6471709
H-US-00503 CIP CON	09/827528	NEEDLE KIT AND METHOD FOR MICROWAVE ABLATION, TRACK COAGULATION, AND BIOPSY	4/6/2001	6/24/2003	6582426
H-US-00503 DIV	10/035793	MODULAR BIOPSY AND MICROWAVE ABLATION NEEDLE DELIVERY APPARATUS ADAPTED TO IN SITU ASSEMBLY AND METHOD OF USE	10/18/2001	11/25/2003	6652520
H-US-00496	10/052848	HIGH STRENGTH MICROWAVE ANTENNA ASSEMBLIES	11/2/2001	4/12/2005	6878147
H-US-00498 (1)	10/271850	LOCALIZATION ELEMENT WITH ENERGIZED TIP	10/15/2002	6/22/2004	6752767
H-US-00496 CIP	10/272058	HIGH STRENGTH MICROWAVE ANTENNA ASSEMBLIES AND METHODS OF USE	10/15/2002	10/31/2006	7128739

SCHEDULE A

Issued US Patents

Covidien Docket No.	Serial number	Title	Filing date	Issue date	Issue number
H-US-00498 (2)	10/272314	MICROWAVE ANTENNA HAVING A CURVED CONFIGURATION	10/15/2002	3/27/2007	7197363
H-US-00503 CIP CON 2	10/428362	NEEDLE KIT AND METHOD FOR MICROWAVE ABLATION, TRACK COAGULATION, AND BIOPSY	5/1/2003	1/9/2007	7160292
H-US-00497	10/622800	DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS	7/18/2003	12/25/2007	7311703
H-US-00498 CON	10/833598	LOCALIZATION ELEMENT WITH ENERGIZED TIP	4/27/2004	12/23/2008	7468042
H-US-00496 DIV	10/961761	HIGH STRENGTH MICROWAVE ANTENNA ASSEMBLIES	10/7/2004	1/15/2008	7318824
H-US-00496 CON	10/961994	HIGH STRENGTH MICROWAVE ANTENNA ASSEMBLIES	10/7/2004	12/12/2006	7147632
H-US-00497 DIV	11/053987	DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS	2/8/2005	1/25/2011	7875024
H-US-00500	11/126531	REINFORCED HIGH STRENGTH MICROWAVE ANTENNA	5/10/2005	9/21/2010	7799019
H-US-00496 CON 2	11/493392	HIGH STRENGTH MICROWAVE ANTENNA ASSEMBLIES	7/26/2006	5/5/2009	7527623
H-US-00496 DIV 2	11/493393	METHOD OF MANUFACTURING A MICROWAVE ANTENNA ASSEMBLY	7/26/2006	9/29/2009	7594313
H-US-00496 CIP CON	11/508034	HIGH STRENGTH MICROWAVE ANTENNA ASSEMBLIES AND METHODS OF USE	8/22/2006	1/4/2011	7862559

SCHEDULE A

Issued US Patents

Covidien Docket No.	Serial number	Title	Filing date	Issue date	Issue number
H-US-00546	11/529823	MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	9/29/2006	11/29/2011	8068921
H-US-00757	11/789521	COOLED HELICAL ANTENNA FOR	4/25/2007	8/16/2011	7998139
H-US-00691	11/820193	MICROWAVE CABLE COOLING	6/18/2007	8/17/2010	7777130
H-US-00943	11/881945	ELECTROSURGICAL SYSTEMS AND PRINTED CIRCUIT BOARDS FOR USE THEREWITH	7/30/2007	4/10/2012	8152800
H-US-00942	11/899249	ELECTRICAL RECEPTACLE ASSEMBLY	9/5/2007	1/12/2010	7645142
H-US-01219	12/123645	COOLANT LINE CLIP ASSEMBLIES FOR USE WITH FLUID DELIVERY SYSTEMS	5/20/2008	10/18/2011	8037895
H-US-01189	12/129482	SLIDABLE CHOKE MICROWAVE ANTENNA	5/29/2008	11/15/2011	8059059
H-US-01239	12/197405	MICROWAVE ANTENNA ASSEMBLY HAVING A DIELECTRIC BODY PORTION WITH RADIAL PARTITIONS OF DIELECTRIC MATERIAL	8/25/2008	7/3/2012	8211098
H-US-01205	12/199935	MICROWAVE ANTENNA	8/28/2008	8/28/2012	8251987
H-US-01676	12/241905	MICROWAVE SYSTEM CALIBRATION APPARATUS, SYSTEM AND METHOD OF USE	9/30/2008	5/15/2012	8180433
H-US-01679	12/242026	SYSTEM, APPARATUS AND METHOD FOR DISSIPATING STANDING WAVE IN A MICROWAVE DELIVERY SYSTEM	9/30/2008	8/21/2012	8248075
H-US-01680	12/242061	INTERMITTENT MICROWAVE ENERGY DELIVERY SYSTEM	9/30/2008	5/8/2012	8174267

SCHEDULE A

Issued US Patents

Covidien Docket No.	Serial number	Title	Filing date	Issue date	Issue number
H-US-01110	12/242102	MICROWAVE ABLATION GENERATOR CONTROL SYSTEM	9/30/2008	8/14/2012	8242782
H-US-01081 (1)	12/273411	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	11/18/2008	5/11/2010	7713076
H-US-01109 (1)	12/274440	SYSTEM AND METHOD FOR FIELD ABLATION PREDICTION	11/20/2008	3/6/2012	8131339
H-US-00498 CON 2	12/331663	LOCALIZATION ELEMENT WITH ENERGIZED TIP	12/10/2008	12/7/2010	7846108
H-US-01039 (1)	12/351633	THERMALLY TUNED COAXIAL CABLE FOR MICROWAVE ANTENNAS	1/9/2009	1/5/2010	7642451
H-US-00845 (1)	12/353617	MEDICAL DEVICE INCLUDING MEMBER THAT DEPLOYS IN A SPIRAL-LIKE CONFIGURATION AND METHOD	1/14/2009	9/11/2012	8262703
H-US-00942 CON	12/358067	ELECTRICAL RECEPTACLE ASSEMBLY	1/22/2009	8/10/2010	7771201
H-US-01285	12/389906	LEAKY-WAVE ANTENNAS FOR MEDICAL APPLICATIONS	2/20/2009	6/12/2012	8197473
H-US-01687	12/389915	LEAKY-WAVE ANTENNAS FOR MEDICAL APPLICATIONS	2/20/2009	6/19/2012	8202270
H-US-01269 (1)	12/399222	HIGH-STRENGTH MICROWAVE ANTENNA COUPLING	3/6/2009	8/21/2012	8246614
H-US-01649	12/401268	COOLED DIELECTRICALLY BUFFERED MICROWAVE DIPOLE ANTENNA	3/10/2009	2/21/2012	8118808
H-US-00496 CON 3	12/419395	HIGH-STRENGTH MICROWAVE ANTENNA ASSEMBLIES	4/7/2009	10/11/2011	8035570

SCHEDULE A

Issued US Patents

Coviden Docket No.	Serial number	Title	Filing date	Issue date	Issue number
H-US-02055	12/436237	POWER STAGE- ANTENNA INTEGRATED SYSTEM WITH JUNCTION MEMBER	5/6/2009	7/10/2012	8216227
H-US-01847	12/468718	TISSUE IMPEDANCE MEASUREMENT USING A SECONDARY FREQUENCY	5/19/2009	8/21/2012	8246615
H-US-01735	12/476960	ELECTROSURGICAL DEVICES WITH DIRECTIONAL RADIATION PATTERN	6/2/2009	8/7/2012	8235981
H-US-01722	12/504738	HIGH EFFICIENCY MICROWAVE AMPLIFIER	7/17/2009	1/4/2011	7863984
H-US-01081 DIV	12/508700	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	7/24/2009	7/6/2010	7749011
H-US-01792	12/556238	METHOD FOR CONSTRUCTING A DIPOLE ANTENNA	9/9/2009	12/6/2011	8069553
H-US-01039 CON	12/651762	THERMALLY TUNED COAXIAL CABLE FOR MICROWAVE ANTENNAS	1/4/2010	9/4/2012	8258399
H-US-01081 CON	12/769457	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	4/28/2010	6/21/2011	7963785
H-US-00691 DIV	12/814787	MICROWAVE CABLE COOLING	6/14/2010	1/10/2012	8093500
H-US-00500 CON	12/859841	REINFORCED HIGH STRENGTH MICROWAVE ANTENNA	8/20/2010	9/6/2011	8012148
H-US-00500 CON 2	13/214503	REINFORCED HIGH STRENGTH MICROWAVE ANTENNA	8/22/2011	6/5/2012	8192423
H-US-01896	29/341411	MEDICAL DEVICE INDICATOR GUIDE	8/5/2009	3/8/2011	D634010
H-US-02270	29/341481	VENTED MICROWAVE SPACER	8/6/2009	4/6/2010	D613412

SCHEDULE A

Pending US Patent Applications

Covidien Docket No.	Serial number	Title	Filing date
PENDING US PATENT APPLICATIONS			
H-US-00503 CIP CON 3	11/640624	NEEDLE KIT AND METHOD FOR MICROWAVE, TRACK COAGULATION, AND BIOPSY	12/18/2006
H-US-00498 CON 2	11/713927	MICROWAVE ANTENNA HAVING A CURVED CONFIGURATION	3/5/2007
H-US-00680	11/799374	ACCORDIAN STYLE CABLE STAND-OFF	5/1/2007
H-US-00747	11/805052	ENERGY DELIVERY CONDUITS FOR USE WITH ELECTROSURGICAL DEVICES	5/22/2007
H-US-00731	11/820679	REFLECTIVE POWER MONITORING FOR MICROWAVE APPLICATIONS	6/20/2007
H-US-00896	11/823639	BROADBAND MICROWAVE APPLICATOR	6/28/2007
H-US-00932	11/900874	FREQUENCY TUNING IN A MICROWAVE ELECTROSURGICAL SYSTEM	9/13/2007
H-US-00497 CON	11/940738	DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS	11/15/2007
H-US-01218	12/147093	DEPLOYABLE MICROWAVE ANTENNA FOR TREATING TISSUE	6/26/2008
H-US-01326	12/181504	TISSUE ABLATION SYSTEM WITH PHASE-CONTROLLED CHANNELS	7/29/2008
H-US-01630	12/197473	DUAL-BAND DIPOLE MICROWAVE ABLATION ANTENNA	8/25/2008
H-US-01217	12/197601	DUAL-BAND DIPOLE MICROWAVE ABLATION ANTENNA	8/25/2008
H-US-01631	12/203474	MICROWAVE SHIELDING APPARATUS	9/3/2008
H-US-01043	12/203734	SHIELDING FOR AN ISOLATION APPARATUS USED IN A MICROWAVE GENERATOR	9/3/2008
H-US-00681 (1)	12/240091	CABLE STAND-OFF	9/29/2008
H-US-01181	12/241861	DELIVERED ENERGY GENERATOR FOR MICROWAVE ABLATION	9/30/2008
H-US-01677	12/241942	MICROWAVE SYSTEM TUNER	9/30/2008
H-US-01678	12/241983	MICROWAVE SYSTEM CALIBRATION APPARATUS AND METHOD OF USE	9/30/2008

SCHEDULE A

Pending US Patent Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-01284	12/250110	ANTENNA ASSEMBLIES FOR MEDICAL APPLICATIONS	10/13/2008
H-US-01714	12/250171	ANTENNA ASSEMBLIES FOR MEDICAL APPLICATIONS	10/13/2008
H-US-01583	12/253457	CHOKED DIELECTRIC LOADED TIP DIPOLE MICROWAVE ANTENNA	10/17/2008
H-US-00849 (1)	12/265024	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/5/2008
H-US-00844(1)	12/277951	TARGETED COOLING OF DEPLOYABLE MICROWAVE ANTENNA	11/25/2008
H-US-01179 (1)	12/350292	CHOKED DIELECTRIC LOADED TIP DIPOLE MICROWAVE ANTENNA	1/8/2009
H-US-00817 (1)	12/353623	ARTICULATING ABLATION DEVICE AND METHOD	1/14/2009
H-US-00819	12/395034	INTRACOOLED PERCUTANEOUS MICROWAVE ABLATION PROBE	2/27/2009
H-US-00868	12/413011	MICROWAVE ABLATION DEVICES INCLUDING EXPANDABLE ANTENNAS AND METHODS OF USE	3/27/2009
H-US-01038 (1)	12/413023	RE-HYDRATION ANTENNA FOR ABLATION	3/27/2009
H-US-01543	12/416583	MICROWAVE ABLATION SYSTEM WITH USER-CONTROLLED ABLATION SIZE AND METHOD OF USE	4/1/2009
H-US-01650	12/423609	FREQUENCY IDENTIFICATION FOR MICROWAVE ABLATION PROBES	4/14/2009
H-US-01252	12/436231	POWER-STAGE ANTENNA INTEGRATED SYSTEM	5/6/2009
H-US-02056	12/436239	POWER-STAGE ANTENNA INTEGRATED SYSTEM WITH HIGH-STRENGTH SHAFT	5/6/2009
H-US-01851	12/472831	NARROW GAUGE HIGH STRENGTH CHOKED WET-TIP MICROWAVE ABLATION ANTENNA	5/27/2009

SCHEDULE A

Pending US Patent Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-01534	12/475082	MICROWAVE ABLATION SAFETY PAD, MICROWAVE SAFETY PAD SYSTEM AND METHOD OF USE	5/29/2009
H-US-01593	12/487917	MICROWAVE ABLATION ANTENNA RADIATION DETECTOR	6/19/2009
H-US-01740	12/493302	ABLATION PROBE FIXATION	6/29/2009
H-US-01736	12/535851	ELECTROSURGICAL DEVICES HAVING DIELECTRIC LOADED COAXIAL APERTURE WITH DISTALLY POSITIONED RESONANT STRUCTURE AND METHOD OF MANUFACTURING SAME	8/5/2009
H-US-01737	12/535856	DIRECTIVE WINDOW ABLATION ANTENNA WITH DIELECTRIC LOADING	8/5/2009
H-US-01773	12/536616	VENTED POSITIONER AND SPACER AND METHOD OF USE	8/6/2009
H-US-01738	12/542348	SURFACE ABLATION ANTENNA WITH DIELECTRIC LOADING	8/17/2009
H-US-01593 CIP	12/542785	MICROWAVE ABLATION ANTENNA RADIATION DETECTOR	8/18/2009
H-US-01723	12/547155	MICROWAVE ABLATION WITH TISSUE TEMPERATURE MONITORING	8/25/2009
H-US-01540	12/548644	ECOGENIC COOLED MICROWAVE ABLATION ANTENNA	8/27/2009
H-US-01793	12/555576	MICROWAVE ANTENNA PROBE WITH HIGH-STRENGTH CERAMIC COUPLER	9/8/2009
H-US-01724	12/556010	SYSTEM AND METHOD FOR PERFORMING AN ABLATION PROCEDURE	9/9/2009
H-US-01790	12/561096	PERFUSED CORE DIELECTRICALLY LOADED DIPOLE MICROWAVE ANTENNA PROBE	9/16/2009
H-US-01901	12/562575	SYSTEM AND METHOD FOR CHECKING HIGH POWER MICROWAVE ABLATION SYSTEM STATUS ON STARTUP	9/18/2009
H-US-01993	12/562842	TISSUE ABLATION SYSTEM WITH ENERGY DISTRIBUTION	9/18/2009

SCHEDULE A

Pending US Patent Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-01797	12/566299	OPTICAL DETECTION OF INTERRUPTED FLUID FLOW TO ABLATION PROBE	9/24/2009
H-US-01913	12/568067	FEEDPOINT OPTIMIZATION FOR MICROWAVE ABLATION DIPOLE ANTENNA WITH INTEGRATED TIP	9/28/2009
H-US-01798	12/568524	ELECTROSURGICAL DEVICES, DIRECTIONAL REFLECTOR ASSEMBLIES COUPLEABLE THERETO, AND ELECTROSURGICAL SYSTEMS INCLUDING SAME	9/28/2009
H-US-01850	12/568551	MICROWAVE SURFACE ABLATION USING CONICAL PROBE	9/28/2009
H-US-01796	12/568777	FLUID COOLED CHOKE DIELECTRIC AND COAXIAL CABLE DIELECTRIC	9/29/2009
H-US-01794	12/568838	MATERIAL FUSING APPARATUS, SYSTEM AND METHOD OF USE	9/29/2009
H-US-01826	12/568883	MANAGEMENT OF VOLTAGE STANDING WAVE RATIO AT SKIN SURFACE DURING MICROWAVE ABLATION	9/29/2009
H-US-01867	12/568972	FLOW RATE MONITOR FOR FLUID COOLED MICROWAVE ABLATION PROBE	9/29/2009
H-US-01869	12/569171	FLOW RATE MONITOR FOR FLUID COOLED MICROWAVE ABLATION PROBE	9/29/2009
H-US-01868	12/569685	FLOW RATE MONITOR FOR FLUID COOLED MICROWAVE ABLATION PROBE	9/29/2009
H-US-02106	12/606769	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	10/27/2009
H-US-02105	12/607221	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	10/28/2009
H-US-02108	12/607268	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	10/28/2009
H-US-01844	12/619323	TWIN SEALING CHAMBER HUB	11/16/2009

SCHEDULE A

Pending US Patent Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-01866	12/620289	ELECTROMAGNETIC ENERGY DELIVERY DEVICES INCLUDING AN ENERGY APPLICATOR ARRAY AND ELECTROSURGICAL SYSTEMS INCLUDING SAME	11/17/2009
H-US-01691	12/642623	MICROWAVE ABLATION SYSTEM WITH DIELECTRIC TEMPERATURE PROBE	12/18/2009
H-US-02103	12/692856	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	1/25/2010
H-US-01920	12/696671	APPARATUS AND METHOD OF USE FOR TREATING BLOOD VESSELS	1/29/2010
H-US-01919	12/696966	SYSTEM AND METHOD FOR PERFORMING AN ELECTROSURGICAL PROCEDURE USING AN ABLATION DEVICE WITH AN INTEGRATED IMAGING DEVICE	1/29/2010
H-US-01789	12/701030	ELECTROSURGICAL DEVICES WITH CHOKE SHORTED TO BIOLOGICAL TISSUE	2/5/2010
H-US-02102	12/708974	BIPOLAR ELECTRODE PROBES FOR ABLATION MONITORING	2/19/2010
H-US-02393	12/709014	ABLATION DEVICES WITH DUAL OPERATING FREQUENCIES, SYSTEMS INCLUDING SAME, AND METHODS OF ADJUSTING ABLATION VOLUME USING SAME	2/19/2010
H-US-02107	12/712864	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	2/25/2010
H-US-01923	12/713429	SELF-TUNING MICROWAVE ABLATION PROBE	2/26/2010
H-EB-00060	12/713515	TUNABLE MICROWAVE ABLATION PROBE	2/26/2010
H-US-01917	12/713641	TISSUE ABLATION SYSTEM WITH INTERNAL AND EXTERNAL RADIATION SOURCES	2/26/2010
H-US-01999	12/715212	SENSORS ON PATIENT SIDE FOR A MICROWAVE GENERATOR	3/1/2010
H-US-01928	12/719657	MICROWAVE ANTENNA PROBE HAVING A DEPLOYABLE GROUND PLANE	3/8/2010

SCHEDULE A

Pending US Patent Applications

Govidlen Docket No.	Serial number	Title	Filing date
H-US-02418	12/731367	MICROWAVE SURFACE COAGULATOR WITH RETRACTABLE BLADE	3/25/2010
H-US-01915	12/732508	ABLATION DEVICES WITH ADJUSTABLE RADIATING SECTION LENGTHS, ELECTROSURGICAL SYSTEMS INCLUDING SAME, AND METHODS OF ADJUSTING ABLATION FIELDS USING SAME	3/26/2010
H-EB-00083	12/732521	ABLATION DEVICES WITH ADJUSTABLE RADIATING SECTION LENGTHS, ELECTROSURGICAL SYSTEMS INCLUDING SAME, AND METHODS OF ADJUSTING ABLATION FIELDS USING SAME	3/26/2010
H-US-01918	12/772675	SYSTEM AND METHOD OF DEPLOYING AN ANTENNA ASSEMBLY	5/3/2010
H-US-01900	12/777984	ELECTROSURGICAL DEVICES WITH BALUN STRUCTURE FOR AIR EXPOSURE OF ANTENNA RADIATING SECTION AND METHOD OF DIRECTING ENERGY TO TISSUE USING SAME	5/11/2010
H-US-01974	12/786671	FLOW RATE VERIFICATION MONITOR FOR FLUID-COOLED MICROWAVE ABLATION PROBE	5/25/2010
H-US-01925	12/787639	SYSTEM AND METHOD FOR CHEMICALLY COOLING AN ABLATION ANTENNA	5/26/2010
H-US-01921	12/823211	MICROWAVE GROUND PLANE ANTENNA PROBE	6/25/2010
H-US-01914	12/826897	ADJUSTABLE TUNING OF A DIELECTRICALLY LOADED LOOP ANTENNA	6/30/2010
H-US-01930	12/826902	MICROWAVE ANTENNA HAVING A REACTIVELY-LOADED LOOP CONFIGURATION	6/30/2010
H-US-02394	12/837820	DUAL ANTENNA ASSEMBLY WITH USER-CONTROLLED PHASE SHIFTING	7/16/2010

SCHEDULE A

Pending US Patent Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-02284	12/877182	MICROWAVE SPACERS AND METHOD OF USE	9/8/2010
H-US-02333	12/910442	MICROWAVE SPACERS AND METHOD OF USE	10/22/2010
H-EB-00062	12/944951	APPARATUS, SYSTEM AND METHOD FOR PERFORMING AN ELECTROSURGICAL PROCEDURE	11/12/2010
H-EB-00227	12/977390	MICROWAVE FIELD-DETECTING NEEDLE ASSEMBLIES, METHODS OF MANUFACTURING SAME, METHODS OF ADJUSTING AN ABLATION FIELD RADIATING INTO TISSUE USING SAME, AND SYSTEMS INCLUDING SAME	12/23/2010
H-US-02455	12/977415	MICROWAVE FIELD-DETECTING NEEDLE ASSEMBLIES, METHODS OF MANUFACTURING SAME, METHODS OF ADJUSTING AN ABLATION FIELD RADIATING INTO TISSUE USING SAME, AND SYSTEMS INCLUDING SAME	12/23/2010
H-EB-00156	12/985124	ENERGY-DELIVERY DEVICES WITH FLEXIBLE FLUID-COOLED SHAFT, INFLOW/OUTFLOW JUNCTIONS SUITABLE FOR USE WITH SAME, AND SYSTEMS INCLUDING SAME	1/5/2011
H-EB-00155	12/985136	ENERGY-DELIVERY DEVICES WITH FLEXIBLE FLUID-COOLED SHAFT, INFLOW/OUTFLOW JUNCTIONS SUITABLE FOR USE WITH SAME, AND SYSTEMS INCLUDING SAME	1/5/2011
H-EB-00154	12/985155	ENERGY-DELIVERY DEVICES WITH FLEXIBLE FLUID-COOLED SHAFT, INFLOW/OUTFLOW JUNCTIONS SUITABLE FOR USE IWTH SAME, AND SYSTEMS INCLUDING SAME	1/5/2011

SCHEDULE A

Pending US Patent Applications

Covidien Docket No.	Serial number	Title	Filing date
H-EB-00045	12/985179	ENERGY-DELIVERY DEVICES WITH FLEXIBLE FLUID-COOLED SHAFT, INFLOW/OUTFLOW JUNCTIONS SUITABLE FOR USE WITH SAME, AND SYSTEMS INCLUDING SAME	1/5/2011
H-US-02206	13/020562	SYSTEM AND METHOD FOR ABLATION PROCEDURE MONITORING USING ELECTRODES	2/3/2011
H-US-01795	13/020664	DUAL ANTENNA MICROWAVE RESECTION AND ABLATION DEVICE, SYSTEM AND METHOD OF USE	2/3/2011
H-EB-00053	13/024041	TISSUE DISSECTORS	2/9/2011
H-EB-00085	13/029521	ENERGY-DELIVERY DEVICE INCLUDING ULTRASOUND TRANSDUCER ARRAY AND PHASED ANTENNA ARRAY	2/17/2011
H-EB-00248	13/029594	ENERGY-DELIVERY DEVICE INCLUDING ULTRASOUND TRANSDUCER ARRAY AND PHASED ANTENNA ARRAY, AND METHODS OF ADJUSTING AN ABLATION FIELD RADIATING INTO TISSUE USING SAME	2/17/2011
H-EB-00285	13/043665	SYSTEMS FOR THERMAL-FEEDBACK-CONTROLLED RATE OF FLUID FLOW TO FLUID-COOLED ANTENNA ASSEMBLY AND METHODS OF DIRECTING ENERGY TO TISSUE USING SAME	3/9/2011
H-EB-00038	13/043694	SYSTEMS FOR THERMAL-FEEDBACK-CONTROLLED RATE OF FLUID FLOW TO FLUID-COOLED ANTENNA ASSEMBLY AND METHODS OF DIRECTING ENERGY TO TISSUE USING SAME	3/9/2011
H-EB-00121	13/050729	ENERGY-BASED ABLATION COMPLETION ALGORITHM	3/17/2011
H-EB-00134	13/083185	MICROWAVE ABLATION INSTRUMENT WITH INTERCHANGEABLE ANTENNA PROBE	4/8/2011

SCHEDULE A

Pending US Patent Applications

Covidien Docket No.	Serial number	Title	Filing date
H-EB-00129	13/083256	MICROWAVE TISSUE DISSECTION AND COAGULATION	4/8/2011
H-US-01593 CIP 2	13/104752	LAPAROSCOPIC PORT WITH MICROWAVE RECTIFIER	5/10/2011
H-US-01791	13/118929	MODIFIED WET TIP ANTENNA DESIGN	5/31/2011
H-US-01924	13/206075	MICROWAVE ANTENNA HAVING A COAXIAL CABLE WITH AN ADJUSTABLE OUTER CONDUCTOR CONFIGURATION	8/9/2011
H-EB-00189	13/236997	HANDHELD MEDICAL DEVICES INCLUDING MICROWAVE AMPLIFIER UNIT AT DEVICE HANDLE	9/20/2011
H-EB-00410	13/237068	HANDHELD MEDICAL DEVICES INCLUDING MICROWAVE AMPLIFIER UNIT AT DEVICE HANDLE	9/20/2011
H-EB-00411	13/237187	HANDHELD MEDICAL DEVICES INCLUDING MICROWAVE AMPLIFIER UNIT AT DEVICE HANDLE	9/20/2011
H-EB-00412	13/237342	HANDHELD MEDICAL DEVICES INCLUDING MICROWAVE AMPLIFIER UNIT AT DEVICE HANDLE	9/20/2011
H-EB-00413	13/237488	HANDHELD MEDICAL DEVICES INCLUDING MICROWAVE AMPLIFIER UNIT AT DEVICE HANDLE	9/20/2011
H-US-00496 CON 4	13/267369	HIGH-STRENGTH MICROWAVE ANTENNA ASSEMBLIES	10/6/2011
H-US-01219 CON	13/268054	COOLANT LINE CLIP ASSEMBLIES FOR USE WITH FLUID DELIVERY SYSTEMS	10/7/2011
H-US-01189 DIV	13/268143	SLIDABLE CHOKE MICROWAVE ANTENNA	10/7/2011
H-US-00546 DIV	13/281605	MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	10/26/2011
H-US-01792 DIV	13/290462	METHOD FOR CONSTRUCTING A DIPOLE ANTENNA	11/7/2011

SCHEDULE A

Pending US Patent Applications

Covidien Docket No.	Serial number	Title	Filing date
H-EB-00220	13/343788	ABLATION SYSTEMS, PROBES, AND METHODS FOR REDUCING RADIATION FROM AN ABLATION PROBE INTO THE ENVIRONMENT	1/5/2012
H-EB-00429	13/343798	ABLATION SYSTEMS, PROBES, AND METHODS FOR REDUCING RADIATION FROM AN ABLATION PROBE INTO THE ENVIRONMENT	1/5/2012
H-EB-00253	13/344753	SYSTEM AND METHOD FOR TREATING TISSUE USING AN EXPANDABLE ANTENNA	1/6/2012
H-US-01916	13/344790	SYSTEM AND METHOD FOR TREATING TISSUE USING AN EXPANDABLE ANTENNA	1/6/2012
H-US-01649 DIV	13/351463	COOLED DIELECTRICALLY BUFFERED MICROWAVE DIPOLE ANTENNA	1/17/2012
H-EB-00125	13/419981	MICROWAVE ABLATION GENERATOR CONTROL SYSTEM	3/14/2012
H-US-00943 DIV	13/424127	ELECTROSURGICAL SYSTEMS AND PRINTED CIRCUIT BOARDS FOR USE THEREWITH	3/19/2012
H-US-02277	13/430810	MICROWAVE-SHIELDED TISSUE SENSOR PROBE	3/27/2012
H-EB-00286	13/440690	ELECTROSURGICAL TISSUE ABLATION SYSTEMS CAPABLE OF DETECTING EXCESSIVE BENDING OF A PROBE AND ALERTING A USER	4/5/2012
H-IL-00075 (1)	13/442831	FLEXIBLE MICROWAVE CATHETERS FOR NATURAL OR ARTIFICIAL LUMENS	4/9/2012
H-US-01179 CON	13/444496	CHOKED DIELECTRIC LOADED TIP DIPOLE MICROWAVE ANTENNA	4/11/2012
H-EB-00385	13/460398	LIMITED REUSE ABLATION NEEDLES AND ABLATION DEVICES FOR USE THEREWITH	4/30/2012
H-EB-00384	13/460414	LIMITED REUSE ABLATION NEEDLES AND ABLATION DEVIES FOR USE THEREWITH	4/30/2012

SCHEDULE A

Pending US Patent Applications

Covidien Docket No.	Serial number	Title	Filing date
H-EB-00250	13/460440	LIMITED REUSE ABLATION NEEDLES AND ABLATION DEVICES FOR USE THEREWITH	4/30/2012
H-EB-00300	13/464021	PERIPHERAL SWITCHING DEVICE FOR MICROWAVE ENERGY PLATFORMS	5/4/2012
H-EB-00405	13/477260	ENERGY-DELIVERY SYSTEM AND METHOD FOR CONTROLLING BLOOD LOSS FROM WOUNDS	5/22/2012
H-EB-00362	13/477279	FIDUCIAL TRACKING SYSTEM	5/22/2012
H-EB-00361	13/477291	SURGICAL NAVIGATION SYSTEM	5/22/2012
H-EB-00121 CIP	13/477307	TEMPERATURE BASED ABLATION COMPLETENESS ALGORITHM	5/22/2012
H-EB-00290	13/477320	ELECTROSURGICAL INSTRUMENT	5/22/2012
H-EB-00359	13/477374	SYSTEMS AND METHODS FOR PLANNING AND NAVIGATION	5/22/2012
H-EB-00364	13/477395	PLANNING SYSTEM AND NAVIGATION SYSTEM FOR AN ABLATION PROCEDURE	5/22/2012
H-EB-00360	13/477406	TREATMENT PLANNING SYSTEM	5/22/2012
H-EB-00363	13/477417	SURGICAL PLANNING SYSTEM AND NAVIGATION SYSTEM	5/22/2012
H-US-00500 CON 3	13/479588	REINFORCED HIGH STRENGTH MICROWAVE ANTENNA	5/24/2012
H-US-01285 CON	13/483858	LEAKY-WAVE ANTENNAS FOR MEDICAL APPLICATIONS	5/30/2012
H-US-01037 DIV	13/525853	COMBINED FREQUENCY MICROWAVE ABLATION SYSTEM, DEVICES AND METHODS OF USE	6/18/2012
H-US-01687 CON	13/526676	LEAKY-WAVE ANTENNAS FOR MEDICAL APPLICATIONS	6/19/2012
H-US-01239 CON	13/539650	MICROWAVE ANTENNA ASSEMBLY HAVING A DIELECTRIC BODY PORTION WITH RADIAL PARTITIONS OF DIELECTRIC MATERIAL	7/2/2012
H-US-01735 CON	13/567624	ELECTROSURGICAL DEVICES WITH DIRECTIONAL RADIATION PATTERN	8/6/2012
H-US-01847 DIV	13/568679	TISSUE IMPEDANCE MEASUREMENT USING A SECONDARY FREQUENCY	8/7/2012

SCHEDULE A

Pending US Patent Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-01110 CON	13/584192	MICROWAVE ABLATION GENERATOR CONTROL SYSTEM	8/13/2012
H-US-01205 CON	13/596785	MICROWAVE ANTENNA	8/28/2012
H-US-01039 CON 2	13/598141	THERMALLY TUNED COAXIAL CABLE FOR MICROWAVE ANTENNAS	8/29/2012
H-EB-00169	29/369382	MICROWAVE DEVICE SPACER AND POSITIONER WITH ARCUATE SLOT	9/8/2010
H-EB-00106	29/414818	ERGONOMIC HANDLE FOR ABLATION DEVICE	3/5/2012
H-EB-00407	61/664555	METHODS AND SYSTEMS FOR ENHANCING ULTRASONIC VISIBILITY OF ENERGY-DELIVERY DEVICES WITHIN TISSUE	6/26/2012
H-EB-00408	61/664559	METHODS AND SYSTEMS FOR ENHANCING ULTRASONIC VISIBILITY OF ENERGY-DELIVERY DEVICES WITHIN TISSUE	6/26/2012
H-EB-00559	61/664577	METHODS AND SYSTEMS FOR ENHANCING ULTRASONIC VISIBILITY OF ENERGY-DELIVERY DEVICES WITHIN TISSUE	6/26/2012
H-EB-00444	61/664586	ABLATION DEVICE HAVING AN EXPANDABLE CHAMBER FOR ANCHORING THE ABLATION DEVICE TO TISSUE	6/26/2012
H-EB-00230	61/666071	SYSTEMS AND METHODS FOR MEASURING THE FREQUENCY OF SIGNALS GENERATED BY HIGH FREQUENCY MEDICAL DEVICES	6/29/2012
H-EB-00233	61/666089	MICROWAVE ANTENNA PROBES AND METHODS OF MANUFACTURING MICROWAVE ANTENNA PROBES	6/29/2012
H-EB-00474	61/666095	MICROWAVE ANTENNA PROBES	6/29/2012
	12/686726	ABLATION DEVICE WITH USER INTERFACE AT DEVICE HANDLE, SYSTEM INCLUDING SAME	1/13/2010
(abandoned)	12/244850	COMBINED FREQUENCY MICROWAVE ABLATION SYSTEM, DEVICES AND METHODS OF USE	10/3/2008

SCHEDULE A

Pending PCT Applications

Covidien Docket No.	Serial number	Title	Filing date
PENDING PCT APPLICATIONS			
H-IL-00075 (B)	PCTUS12/032820	FLEXIBLE MICROWAVE CATHETERS FOR NATURAL OR ARTIFICIAL LUMENS	4/9/2012
H-IL-00075 (A)	PCTUS12/032818	FLEXIBLE MICROWAVE CATHETERS FOR NATURAL OR ARTIFICIAL LUMENS	4/9/2012
H-IL-00075 (C)	PCTUS12/032821	FLEXIBLE MICROWAVE CATHETERS FOR NATURAL OR ARTIFICIAL LUMENS	4/9/2012
H-IL-00075 (D)	PCTUS12/032815	FLEXIBLE MICROWAVE CATHETERS FOR NATURAL OR ARTIFICIAL LUMENS	4/9/2012
H-US-01924	PCTUS12/050149	MICROWAVE ANTENNA HAVING A COAXIAL CABLE WITH AN ADJUSTABLE OUTER CONDUCTOR CONFIGURATION	8/9/2012

SCHEDULE A

Issued/ Validated Foreign Patents

Covidien Docket No.	Serial number	Title	Filing date	Issue Date	Issue number
ISSUED/ VALIDATED FOREIGN PATENTS					
AUSTRALIA					
H-US-00497	2004260453	DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS	7/13/2004	5/27/2010	2004260453
H-US-00500	2006201855	REINFORCED HIGH STRENGTH MICROWAVE ANTENNA	5/3/2006	12/8/2011	2006201855
H-US-00546	2007219344	MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	9/27/2007	5/17/2012	2007219344
H-US-00757	2008201784	COOLED HELICAL ANTENNA FOR MICROWAVE ABLATION	4/23/2008	5/3/2012	2008201784
H-US-01081	2008249213	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	11/26/2008	2/16/2012	2008249213
EPO					
H-EB-00169	1263735	MICROWAVE DEVICE SPACER AND POSITIONER WITH ARCUATE SLOT	3/7/2011	3/7/2011	001263735-001
H-US-00849 DIV	10161722.3	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/14/2008	9/12/2012	2208477
H-US-01081	8170073.4	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	11/27/2008	5/23/2012	2065985
H-US-01181	9012391	DELIVERED ENERGY GENERATOR FOR MICROWAVE ABLATION	9/30/2009	8/8/2012	2168521
H-US-01678	9012389.4	MICROWAVE SYSTEM CALIBRATION APPARATUS AND METHOD OF USE	9/30/2009	8/29/2012	2168520
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SCHEDULE A

Issued/ Validated Foreign Patents

Covidien Docket No.	Serial number	Title	Filing date	Issue Date	Issue number
H-US-00497	4778192.7	DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS	7/13/2004	10/31/2012	1659969
H-US-00546	7018821.4	MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	9/25/2007	7/21/2010	1905375
H-US-00819	9003029.7	INTRACOOLED PERCUTANEOUS MICROWAVE ABLATION PROBE	3/3/2009	7/13/2011	2098184
H-US-00849	8019920.1	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/14/2008	12/9/2010	2060239
H-US-00849 DIV	10161722.3	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/14/2008	9/12/2012	2208477
H-US-01043	9169377	SHIELDING FOR AN ISOLATION APPARATUS USED IN A MICROWAVE GENERATOR	9/3/2009	11/2/2011	2161055
H-US-01081	8170073.4	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	11/27/2008	5/23/2012	2065985
H-US-01181	9012391	DELIVERED ENERGY GENERATOR FOR MICROWAVE ABLATION	9/30/2009	8/8/2012	2168521
H-US-01239	9010877	MICROWAVE ANTENNA ASSEMBLY HAVING A DIELECTRIC BODY PORTION WITH RADIAL PARTITIONS OF DIELECTRIC MATERIAL	8/25/2009	5/2/2012	2158869
H-US-01630	9010873.9	DUAL-BAND DIPOLE MICROWAVE ABLATION ANTENNA	8/25/2009	10/24/2012	2158868
H-US-01677	9012392.8	MICROWAVE SYSTEM TUNER	9/30/2009	2/22/2012	2168522

SCHEDULE A

Issued/ Validated Foreign Patents

Covidien Docket No.	Serial number	Title	Filing date	Issue Date	Issue number
H-US-01678	9012389.4	MICROWAVE SYSTEM CALIBRATION APPARATUS AND METHOD OF USE	9/30/2009	8/29/2012	2168520
H-US-01679	9012400.9	SYSTEM, APPARATUS AND METHOD FOR DISSIPATING STANDING WAVE IN A MICROWAVE DELIVERY SYSTEM	9/30/2009	3/28/2012	2168524
H-US-01999	11001689.6	SENSORS ON PATIENT SIDE FOR A MICROWAVE GENERATOR	3/1/2011	9/19/2012	2363088
GERMANY					
H-US-00497	4778192.7	DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS	7/13/2004	10/31/2012	1659969
H-US-00546	7018821.4	MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	9/25/2007	7/21/2010	1905375
H-US-00819	9003029.7	INTRACOOLED PERCUTANEOUS MICROWAVE ABLATION PROBE	3/3/2009	7/13/2011	2098184
H-US-00849	8019920.1	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/14/2008	12/9/2010	2060239
H-US-00849 DIV	10161722.3	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/14/2008	9/12/2012	2208477
H-US-01043	9169377	SHIELDING FOR AN ISOLATION APPARATUS USED IN A MICROWAVE GENERATOR	9/3/2009	11/2/2011	2161055
H-US-01081	8170073.4	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	11/27/2008	5/23/2012	2065985

SCHEDULE A

Issued/ Validated Foreign Patents

Covidien Docket No.	Serial number	Title	Filing date	Issue Date	Issue number
H-US-01181	9012391	DELIVERED ENERGY GENERATOR FOR MICROWAVE ABLATION	9/30/2009	8/8/2012	2168521
H-US-01239	9010877	MICROWAVE ANTENNA ASSEMBLY HAVING A DIELECTRIC BODY PORTION WITH RADIAL PARTITIONS OF DIELECTRIC MATERIAL	8/25/2009	5/2/2012	2158869
H-US-01630	9010873.9	DUAL-BAND DIPOLE MICROWAVE ABLATION ANTENNA	8/25/2009	10/24/2012	2158868
H-US-01677	9012392.8	MICROWAVE SYSTEM TUNER	9/30/2009	2/22/2012	2168522
H-US-01678	9012389.4	MICROWAVE SYSTEM CALIBRATION APPARATUS AND METHOD OF USE	9/30/2009	8/29/2012	2168520
H-US-01679	9012400.9	SYSTEM, APPARATUS AND METHOD FOR DISSIPATING STANDING WAVE IN A MICROWAVE DELIVERY SYSTEM	9/30/2009	3/28/2012	2168524
H-US-01999	11001689.6	SENSORS ON PATIENT SIDE FOR A MICROWAVE GENERATOR	3/1/2011	9/19/2012	2363088
GREAT BRITAIN					
H-US-00497	4778192.7	DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS	7/13/2004	10/31/2012	1659969
H-US-00546	7018821.4	MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	9/25/2007	7/21/2010	1905375
H-US-00819	9003029.7	INTRACOOLED PERCUTANEOUS MICROWAVE ABLATION PROBE	3/3/2009	7/13/2011	2098184

SCHEDULE A

Issued/ Validated Foreign Patents

Covidien Docket No.	Serial number	Title	Filing date	Issue Date	Issue number
H-US-00849	8019920.1	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/14/2008	12/9/2010	2060239
H-US-00849 DIV	10161722.3	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/14/2008	9/12/2012	2208477
H-US-01043	9169377	SHIELDING FOR AN ISOLATION APPARATUS USED IN A MICROWAVE GENERATOR	9/3/2009	11/2/2011	2161055
H-US-01081	8170073.4	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	11/27/2008	5/23/2012	2065985
H-US-01181	9012391	DELIVERED ENERGY GENERATOR FOR MICROWAVE ABLATION	9/30/2009	8/8/2012	2168521
H-US-01239	9010877	MICROWAVE ANTENNA ASSEMBLY HAVING A DIELECTRIC BODY PORTION WITH RADIAL PARTITIONS OF DIELECTRIC MATERIAL	8/25/2009	5/2/2012	2158869
H-US-01630	9010873.9	DUAL-BAND DIPOLE MICROWAVE ABLATION ANTENNA	8/25/2009	10/24/2012	2158868
H-US-01677	9012392.8	MICROWAVE SYSTEM TUNER	9/30/2009	2/22/2012	2168522
H-US-01678	9012389.4	MICROWAVE SYSTEM CALIBRATION APPARATUS AND METHOD OF USE	9/30/2009	8/29/2012	2168520
H-US-01679	9012400.9	SYSTEM, APPARATUS AND METHOD FOR DISSIPATING STANDING WAVE IN A MICROWAVE DELIVERY SYSTEM	9/30/2009	3/28/2012	2168524

SCHEDULE A

Issued/ Validated Foreign Patents

Covidien Docket No.	Serial number	Title	Filing date	Issue Date	Issue number
H-US-01999	11001689.6	SENSORS ON PATIENT SIDE FOR A MICROWAVE GENERATOR	3/1/2011	9/19/2012	2363088
IRELAND					
H-US-00497	4778192.7	DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS	7/13/2004	10/31/2012	H-US-00497
H-US-00546	7018821.4	MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	9/25/2007	7/21/2010	H-US-00546
H-US-00819	9003029.7	INTRACOOLED PERCUTANEOUS MICROWAVE ABLATION PROBE	3/3/2009	7/13/2011	H-US-00819
H-US-00849	8019920.1	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/14/2008	12/9/2010	H-US-00849
H-US-00849 DIV	10161722.3	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/14/2008	9/12/2012	H-US-00849 DIV
H-US-01043	9169377	SHIELDING FOR AN ISOLATION APPARATUS USED IN A MICROWAVE GENERATOR	9/3/2009	11/2/2011	H-US-01043
H-US-01081	8170073.4	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	11/27/2008	5/23/2012	H-US-01081
H-US-01181	9012391	DELIVERED ENERGY GENERATOR FOR MICROWAVE ABLATION	9/30/2009	8/8/2012	H-US-01181
H-US-01239	9010877	MICROWAVE ANTENNA ASSEMBLY HAVING A DIELECTRIC BODY PORTION WITH RADIAL PARTITIONS OF DIELECTRIC MATERIAL	8/25/2009	5/2/2012	H-US-01239

SCHEDULE A

Issued/ Validated Foreign Patents

Covidien Docket No.	Serial number	Title	Filing date	Issue Date	Issue number
H-US-01630	9010873.9	DUAL-BAND DIPOLE MICROWAVE ABLATION ANTENNA	8/25/2009	10/24/2012	H-US-01630
H-US-01999	11001689.6	SENSORS ON PATIENT SIDE FOR A MICROWAVE GENERATOR	3/1/2011	9/19/2012	H-US-01999
ITALY					
H-US-00546	7018821.4	MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	9/25/2007	7/21/2010	1905375
H-US-00819	9003029.7	INTRACOOLED PERCUTANEOUS MICROWAVE ABLATION PROBE	3/3/2009	7/13/2011	2098184
H-US-00849	8019920.1	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/14/2008	12/9/2010	2060239
H-US-00849 DIV	10161722.3	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/14/2008	9/12/2012	2208477
H-US-01043	9169377	SHIELDING FOR AN ISOLATION APPARATUS USED IN A MICROWAVE GENERATOR	9/3/2009	11/2/2011	2161055
H-US-01081	8170073.4	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	11/27/2008	5/23/2012	2065985
H-US-01181	9012391	DELIVERED ENERGY GENERATOR FOR MICROWAVE ABLATION	9/30/2009	8/8/2012	2168521
H-US-01239	9010877	MICROWAVE ANTENNA ASSEMBLY HAVING A DIELECTRIC BODY PORTION WITH RADIAL PARTITIONS OF DIELECTRIC MATERIAL	8/25/2009	5/2/2012	2158869
JAPAN					

SCHEDULE A

Issued/ Validated Foreign Patents

Covidien Docket No.	Serial number	Title	Filing date	Issue Date	Issue number
H-US-00496	2003-541481	HIGH STRENGTH MICROWAVE ANTENNA ASSEMBLIES AND METHODS OF USE	10/29/2002	1/8/2010	4437039
H-US-00498 (2)	2003-585613	MICROWAVE ANTENNA HAVING A CURVED CONFIGURATION	3/27/2003	11/20/2009	4409960
H-US-00498 (1)	2003-585561	LOCALIZATION ELEMENT WITH ENERGIZED TIP	4/11/2003	11/27/2009	4414238
H-US-00497	2006-520296	DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS	7/13/2004	11/19/2010	4630278
H-US-00500	2006-128689	REINFORCED HIGH STRENGTH MICROWAVE ANTENNA	5/2/2006	6/29/2012	5027439
H-EB-00169	2011-5247	MICROWAVE DEVICE SPACER AND POSITIONER WITH ARCUATE SLOT	3/8/2011	12/2/2011	1430888
SPAIN					
H-US-00546	7018821.4	MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	9/25/2007	7/21/2010	1905375
H-US-00819	9003029.7	INTRACOOLED PERCUTANEOUS MICROWAVE ABLATION PROBE	3/3/2009	7/13/2011	2098184
H-US-00849	8019920.1	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/14/2008	12/9/2010	2060239
H-US-00849 DIV	10161722.3	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/14/2008	9/12/2012	2208477
H-US-01043	9169377	SHIELDING FOR AN ISOLATION APPARATUS USED IN A MICROWAVE GENERATOR	9/3/2009	11/2/2011	2161055

SCHEDULE A**Issued/ Validated Foreign Patents**

Covidien Docket No.	Serial number	Title	Filing date	Issue Date	Issue number
H-US-01081	8170073.4	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	11/27/2008	5/23/2012	2065985
H-US-01181	9012391	DELIVERED ENERGY GENERATOR FOR	9/30/2009	8/8/2012	2168521
H-US-01239	9010877	MICROWAVE ANTENNA ASSEMBLY HAVING A DIELECTRIC BODY PORTION WITH RADIAL PARTITIONS OF DIELECTRIC MATERIAL	8/25/2009	5/2/2012	2158869

SCHEDULE A

Pending Foreign Applications

Covidien Docket No.	Serial number	Title	Filing date
PENDING FOREIGN PATENT APPLICATIONS			
AUSTRALIA			
H-EB-00038	2012201440	SYSTEMS FOR THERMAL-FEEDBACK-CONTROLLED RATE OF FLUID FLOW TO FLUID-COOLED ANTENNA ASSEMBLY AND METHODS OF DIRECTING ENERGY TO TISSUE USING SAME	3/9/2012
H-EB-00085	2012200877	ENERGY-DELIVERY DEVICE INCLUDING ULTRASOUND TRANSDUCER ARRAY AND PHASED ANTENNA ARRAY	2/15/2012
H-EB-00121	2012201624	ENERGY-BASED ABLATION COMPLETION ALGORITHM	3/19/2012
H-EB-00129	2012202043	MICROWAVE TISSUE DISSECTION AND COAGULATION	4/10/2012
H-EB-00134	2012202042	MICROWAVE ABLATION INSTRUMENT WITH INTERCHANGEABLE ANTENNA PROBE	4/10/2012
H-EB-00248	2012200878	ENERGY-DELIVERY DEVICE INCLUDING ULTRASOUND TRANSDUCER ARRAY AND PHASED ANTENNA ARRAY, AND METHODS OF ADJUSTING AN ABLATION FIELD RADIATING INTO TISSUE USING SAME	2/15/2012
H-US-00497 DIV	2010201894	DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS	5/11/2010
H-US-00546 DIV	2012200224	MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	9/27/2007
H-US-00731	2008202726	REFLECTIVE POWER MONITORING FOR MICROWAVE APPLICATIONS	6/20/2008
H-US-00849	2008245612	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/10/2008
H-US-00896	2008202845	BROADBAND MICROWAVE APPLICATOR	6/27/2008
H-US-00932	2008212053	FREQUENCY TUNING IN A MICROWAVE ELECTROSURGICAL SYSTEM	9/8/2008
H-US-00942	2008207597	ELECTRICAL RECEPTACLE ASSEMBLY	8/28/2008
H-US-00943	2008203358	ELECTROSURGICAL SYSTEMS AND PRINTED CIRCUIT BOARDS FOR USE THEREWITH	7/28/2008
H-US-01038	2009201253	RE-HYDRATION ANTENNA FOR MICROWAVE ABLATION	3/31/2009

SCHEDULE A

Pending Foreign Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-01043	2009212961	SHIELDING FOR AN ISOLATION APPARATUS USED IN A MICROWAVE GENERATOR	9/3/2009
H-US-01110	2009222512	MICROWAVE ABLATION GENERATOR CONTROL SYSTEM	9/30/2009
H-US-01179	2009206445	CHOKED DIELECTRIC LOADED TIP DIPOLE MICROWAVE ANTENNA	1/22/2009
H-US-01181	2009222509	DELIVERED ENERGY GENERATOR FOR MICROWAVE ABLATION	9/30/2009
H-US-01189	2009202106	SLIDABLE CHOKE MICROWAVE ANTENNA	5/28/2009
H-US-01239	2009212796	MICROWAVE ANTENNA ASSEMBLY HAVING A DIELECTRIC BODY PORTION WITH RADIAL PARTITIONS OF DIELECTRIC MATERIAL	8/25/2009
H-US-01252	2010246238	POWER-STAGE ANTENNA INTEGRATED SYSTEM	4/28/2010
H-US-01285	2010200640	LEAKY-WAVE ANTENNAS FOR MEDICAL APPLICATIONS	2/19/2010
H-US-01326	2009203065	TISSUE ABLATION SYSTEM WITH PHASE-CONTROLLED CHANNELS	7/29/2009
H-US-01543	2010201318	MICROWAVE ABLATION SYSTEM WITH USER-CONTROLLED ABLATION SIZE AND METHOD OF USE	4/1/2010
H-US-01593 CIP 2	2012202758	LAPAROSCOPIC PORT WITH MICROWAVE RECTIFIER	5/10/2012
H-US-01630	2009212766	DUAL-BAND DIPOLE MICROWAVE ABLATION ANTENNA	8/24/2009
H-US-01631	2009212962	MICROWAVE SHIELDING APPARATUS	9/3/2009
H-US-01676	2009222518	MICROWAVE SYSTEM CALIBRATION APPARATUS, SYSTEM AND METHOD OF USE	9/30/2009
H-US-01677	2009222497	MICROWAVE SYSTEM TUNER	9/30/2009
H-US-01678	2009222516	MICROWAVE SYSTEM CALIBRATION APPARATUS AND METHOD OF USE	9/30/2009
H-US-01679	2009222511	SYSTEM, APPARATUS AND METHOD FOR DISSIPATING STANDING WAVE IN A MICROWAVE DELIVERY SYSTEM	9/30/2009
H-US-01680	2009222517	INTERMITTENT MICROWAVE ENERGY DELIVERY SYSTEM	9/30/2009
H-US-01714	2009225331	ANTENNA ASSEMBLIES FOR MEDICAL APPLICATIONS	10/13/2009

SCHEDULE A

Pending Foreign Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-01722	2010203036	HIGH EFFICIENCY MICROWAVE AMPLIFIER	7/16/2010
H-US-01735	2010202190	ELECTROSURGICAL DEVICES WITH DIRECTIONAL RADIATION PATTERN	5/28/2010
H-US-01736	2010206116	ELECTROSURGICAL DEVICES HAVING DIELECTRIC LOADED COAXIAL APERTURE WITH DISTALLY POSITIONED RESONANT STRUCTURE AND METHOD OF MANUFACTURING SAME	8/4/2010
H-US-01737		DIRECTIVE WINDOW ABLATION ANTENNA WITH DIELECTRIC LOADING	8/4/2010
H-US-01791	2012203168	MODIFIED WET TIP ANTENNA DESIGN	5/29/2012
H-US-01851	2010202137	NARROW GAUGE HIGH STRENGTH CHOKED WET-TIP MICROWAVE ABLATION ANTENNA	5/26/2010
H-US-01919	2011200329	SYSTEM AND METHOD FOR PERFORMING AN ELECTROSURGICAL PROCEDURE USING AN ABLATION DEVICE WITH AN INTEGRATED IMAGING DEVICE	1/27/2011
H-US-01923	2011200698	SELF-TUNING MICROWAVE ABLATION PROBE	2/17/2011
H-US-02418	2011201393	MICROWAVE SURFACE COAGULATOR WITH RETRACTABLE BLADE	3/25/2011
CANADA			
H-EB-00129	2773417	MICROWAVE TISSUE DISSECTION AND COAGULATION	4/10/2012
H-EB-00134	2773415	MICROWAVE ABLATION INSTRUMENT WITH INTERCHANGEABLE ANTENNA PROBE	4/10/2012
H-EB-00410		HANDHELD MEDICAL DEVICES INCLUDING MICROWAVE AMPLIFIER UNIT AT DEVICE HANDLE	9/17/2012
H-US-01593 CIP 2	2776603	LAPAROSCOPIC PORT WITH MICROWAVE RECTIFIER	5/9/2012
H-US-01791	2778457	MODIFIED WET TIP ANTENNA DESIGN	5/29/2012
H-EB-00038	2770810	SYSTEMS FOR THERMAL-FEEDBACK- CONTROLLED RATE OF FLUID FLOW TO FLUID-COOLED ANTENNA ASSEMBLY AND METHODS OF DIRECTING ENERGY TO TISSUE USING SAME	3/9/2012

SCHEDULE A

Pending Foreign Applications

Covidien Docket No.	Serial number	Title	Filing date
H-EB-00085	2768158	ENERGY-DELIVERY DEVICE INCLUDING ULTRASOUND TRANSDUCER ARRAY AND PHASED ANTENNA ARRAY	2/15/2012
H-EB-00121	2771632	ENERGY-BASED ABLATION COMPLETION ALGORITHM	3/19/2012
H-EB-00248	2768156	ENERGY-DELIVERY DEVICE INCLUDING ULTRASOUND TRANSDUCER ARRAY AND PHASED ANTENNA ARRAY, AND METHODS OF ADJUSTING AN ABLATION FIELD RADIATING INTO TISSUE USING SAME	2/15/2012
H-US-00497	2532979	DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS	7/13/2004
H-US-00500	2544328	REINFORCED HIGH STRENGTH MICROWAVE ANTENNA	4/20/2006
H-US-00546	2604318	MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	9/25/2007
H-US-00731	2635389	REFLECTIVE POWER MONITORING FOR MICROWAVE APPLICATIONS	6/19/2008
H-US-00757	2629588	COOLED HELICAL ANTENNA FOR MICROWAVE ABLATION	4/23/2008
H-US-00849	2643958	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/13/2008
H-US-00896	2636393	BROADBAND MICROWAVE APPLICATOR	6/26/2008
H-US-00932	2639366	FREQUENCY TUNING IN A MICROWAVE ELECTROSURGICAL SYSTEM	9/5/2008
H-US-00942	2639361	ELECTRICAL RECEPTACLE ASSEMBLY	9/3/2008
H-US-00943	2638244	ELECTROSURGICAL SYSTEMS AND PRINTED CIRCUIT BOARDS FOR USE THEREWITH	7/25/2008
H-US-01038	2660930	RE-HYDRATION ANTENNA FOR ABLATION	3/30/2009
H-US-01043	2678297	SHIELDING FOR AN ISOLATION APPARATUS USED IN A MICROWAVE GENERATOR	9/3/2009
H-US-01081	2644697	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	11/25/2008
H-US-01110	2681255	MICROWAVE ABLATION GENERATOR CONTROL SYSTEM	9/30/2009
H-US-01179	2712776	CHOKED DIELECTRIC LOADED TIP DIPOLE MICROWAVE ANTENNA	1/22/2009

SCHEDULE A

Pending Foreign Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-01181	2680986	DELIVERED ENERGY GENERATOR FOR MICROWAVE ABLATION	9/30/2009
H-US-01189	2666899	SLIDABLE CHOKE MICROWAVE ANTENNA	5/27/2009
H-US-01239	2676520	MICROWAVE ANTENNA ASSEMBLY HAVING A DIELECTRIC BODY PORTION WITH RADIAL PARTITIONS OF DIELECTRIC MATERIAL	8/24/2009
H-US-01252	2761199	POWER-STAGE ANTENNA INTEGRATED SYSTEM	4/28/2010
H-US-01285	2693744	LEAKY-WAVE ANTENNAS FOR MEDICAL APPLICATIONS	2/19/2010
H-US-01326	2674068	TISSUE ABLATION SYSTEM WITH PHASE-CONTROLLED CHANNELS	7/28/2009
H-US-01543	2698862	MICROWAVE ABLATION SYSTEM WITH USER-CONTROLLED ABLATION SIZE AND METHOD OF USE	4/1/2010
H-US-01630	2676522	DUAL-BAND DIPOLE MICROWAVE ABLATION ANTENNA	8/24/2009
H-US-01631	2677560	MICROWAVE SHIELDING APPARATUS	9/3/2009
H-US-01676	2680940	MICROWAVE SYSTEM CALIBRATION APPARATUS, SYSTEM AND METHOD OF USE	9/29/2009
H-US-01677	2680939	MICROWAVE SYSTEM TUNER	9/29/2009
H-US-01678	2681215	MICROWAVE SYSTEM CALIBRATION APPARATUS AND METHOD OF USE	9/30/2009
H-US-01679	2680937	SYSTEM, APPARATUS AND METHOD FOR DISSIPATING STANDING WAVE IN A MICROWAVE DELIVERY SYSTEM	9/29/2009
H-US-01680	2680936	INTERMITTENT MICROWAVE ENERGY DELIVERY SYSTEM	9/29/2009
H-US-01714	2682435	ANTENNA ASSEMBLIES FOR MEDICAL APPLICATIONS	10/13/2009
H-US-01722	2710048	HIGH EFFICIENCY MICROWAVE AMPLIFIER	7/16/2010
H-US-01735	2706194	ELECTROSURGICAL DEVICES WITH DIRECTIONAL RADIATION PATTERN	5/31/2010
H-US-01736	2712140	ELECTROSURGICAL DEVICES HAVING DIELECTRIC LOADED COAXIAL APERTURE WITH DISTALLY POSITIONED RESONANT STRUCTURE AND METHOD OF MANUFACTURING SAME	8/4/2010

SCHEDULE A

Pending Foreign Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-01737	2711827	DIRECTIVE WINDOW ABLATION ANTENNA WITH DIELECTRIC LOADING	8/4/2010
H-US-01851	2705182	NARROW GAUGE HIGH STRENGTH CHOKED WET-TIP MICROWAVE ABLATION ANTENNA	5/26/2010
H-US-01919	2729363	SYSTEM AND METHOD FOR PERFORMING AN ELECTROSURGICAL PROCEDURE USING AN ABLATION DEVICE WITH AN INTEGRATED IMAGING DEVICE	1/27/2011
H-US-01923	2732378	SELF-TUNING MICROWAVE ABLATION PROBE	2/22/2011
H-US-02418	2735072	MICROWAVE SURFACE COAGULATOR WITH RETRACTABLE BLADE	3/24/2011
CHINA			
H-US-01593 CIP2	201210205270.7	LAPAROSCOPIC PORT WITH MICROWAVE RECTIFIER	5/10/2012
H-US-01791	201210319428.3	MODIFIED WET TIP ANTENNA DESIGN	5/31/2012
H-EB-00129	201210157143.4	MICROWAVE TISSUE DISSECTION AND COAGULATION	4/9/2012
H-EB-00134	201210169145.5	MICROWAVE ABLATION INSTRUMENT WITH INTERCHANGEABLE ANTENNA PROBE	4/9/2012
H-EB-00410	201210353225.6	HANDHELD MEDICAL DEVICES INCLUDING MICROWAVE AMPLIFIER UNIT AT DEVICE HANDLE	9/20/2012
H-EB-00413	201210353415.8	HANDHELD MEDICAL DEVICES INCLUDING MICROWAVE AMPLIFIER UNIT AT DEVICE HANDLE	9/20/2012
H-US-01179	200980103070.7	CHOKED DIELECTRIC LOADED TIP DIPOLE MICROWAVE ANTENNA	1/22/2009
EPO			
H-EB-00413	12185192.7	HANDHELD MEDICAL DEVICES INCLUDING MICROWAVE	
H-US-01081 DIV	12168858.4	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	11/27/2008
H-EB-00410	12006524.8	HANDHELD MEDICAL DEVICES INCLUDING MICROWAVE AMPLIFIER UNIT AT DEVICE HANDLE	9/17/2012
H-US-01593 CIP2	12003728.8	LAPAROSCOPIC PORT WITH MICROWAVE RECTIFIER	5/10/2012
H-US-01791	12004169.4	MODIFIED WET TIP ANTENNA DESIGN	5/30/2012
H-US-00497 DIV	10172634.7	DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS	7/13/2004

SCHEDULE A

Pending Foreign Applications

Coviden Docket No.	Serial number	Title	Filing date
H-US-00498 (2)	3721482.2	MICROWAVE ANTENNA HAVING A CURVED CONFIGURATION	3/27/2003
H-US-00498 (1)	3736458.5	LOCALIZATION ELEMENT WITH ENERGIZED TIP	4/11/2003
H-US-00498 DIV 2	10185413.1	MICROWAVE ANTENNA HAVING A CURVED CONFIGURATION	3/27/2003
H-US-00500	6009435.6	REINFORCED HIGH STRENGTH MICROWAVE ANTENNA	5/8/2006
H-US-00731	8011282.4	REFLECTIVE POWER MONITORING FOR MICROWAVE APPLICATIONS	6/20/2008
H-US-00757	8007924.7	COOLED HELICAL ANTENNA FOR MICROWAVE ABLATION	4/24/2008
H-US-00817	9151736.7	ARTICULATING ABLATION DEVICE AND METHOD	1/30/2009
H-US-00819 DIV	11164913.3	INTRACOOLED PERCUTANEOUS MICROWAVE ABLATION PROBE	3/3/2009
H-US-00849 DIV2	11185926	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/14/2008
H-US-00896	8011705.4	BROADBAND MICROWAVE APPLICATOR	6/27/2008
H-US-00932	8015842.1	FREQUENCY TUNING IN A MICROWAVE ELECTROSURGICAL SYSTEM	9/9/2008
H-US-00942	8015204.4	ELECTRICAL RECEPTACLE ASSEMBLY	8/28/2008
H-US-00943	8013605.4	ELECTROSURGICAL SYSTEMS AND PRINTED CIRCUIT BOARDS FOR USE THEREWITH	7/29/2008
H-US-00943 DIV	11185031.9	ELECTROSURGICAL SYSTEMS AND PRINTED CIRCUIT BOARDS FOR USE THEREWITH	7/29/2008
H-US-01037	9172188.6	COMBINED FREQUENCY MICROWAVE ABLATION SYSTEM, DEVICES AND METHODS OF USE	10/5/2009
H-US-01039	9000981.2	THERMALLY TUNED COAXIAL CABLE FOR MICROWAVE ANTENNAS	1/23/2009
H-US-01109	8169973.8	SYSTEM AND METHOD FOR FIELD ABLATION PREDICTION	11/26/2008
H-US-01110	9012388.6	MICROWAVE ABLATION GENERATOR CONTROL SYSTEM	9/30/2009
H-US-01189	9161502.1	SLIDABLE CHOKE MICROWAVE ANTENNA	5/29/2009

SCHEDULE A

Pending Foreign Applications

Coviden Docket No.	Serial number	Title	Filing date
H-US-01239 DIV	12165136.8	MICROWAVE ANTENNA ASSEMBLY HAVING A DIELECTRIC BODY PORTION WITH RADIAL PARTITIONS OF DIELECTRIC MATERIAL	8/25/2009
H-US-01326	9166708.9	TISSUE ABLATION SYSTEM WITH PHASE- CONTROLLED CHANNELS	7/29/2009
H-US-01543	10158944.8	MICROWAVE ABLATION SYSTEM WITH USER-CONTROLLED ABLATION SIZE AND METHOD OF USE	4/1/2010
H-US-01583	9173268.5	CHOKED DIELECTRIC LOADED TIP DIPOLE MICROWAVE ANTENNA	10/16/2009
H-US-01631	9169376.2	MICROWAVE SHIELDING APPARATUS	9/3/2009
H-US-01680	9012396.9	INTERMITTENT MICROWAVE ENERGY DELIVERY SYSTEM	9/30/2009
H-US-01714	9172838.6	ANTENNA ASSEMBLIES FOR MEDICAL APPLICATIONS	10/13/2009
H-US-01847	10163235.4	TISSUE IMPEDANCE MEASUREMENT USING A SECONDARY FREQUENCY	5/19/2010
H-US-00496 DIV 2	10004950.1	HIGH STRENGTH MICROWAVE ANTENNA ASSEMBLIES AND METHODS OF USE	10/29/2002
H-US-00496 DIV	10004951.9	HIGH STRENGTH MICROWAVE ANTENNA ASSEMBLIES AND METHODS OF USE	10/29/2002
H-US-00496	2786604.5	HIGH STRENGTH MICROWAVE ANTENNA ASSEMBLIES AND METHODS OF USE	10/29/2002
H-EB-00038	12001643.1	SYSTEMS FOR THERMAL-FEEDBACK- CONTROLLED RATE OF FLUID FLOW TO FLUID-COOLED ANTENNA ASSEMBLY AND METHODS OF DIRECTING ENERGY TO TISSUE USING SAME	3/9/2012
H-EB-00045	11010175.5	ENERGY-DELIVERY DEVICES WITH FLEXIBLE FLUID-COOLED SHAFT, INFLOW/OUTFLOW JUNCTIONS SUITABLE FOR USE IWTH SAME, AND SYSTEMS INCLUDING SAME	12/23/2011
H-EB-00053	12000336.3	TISSUE DISSECTORS	1/19/2012
H-EB-00062	11009036.2	APPARATUS, SYSTEM AND METHOD FOR PERFORMING AN ELECTROSURGICAL PROCEDURE	11/14/2011

SCHEDULE A

Pending Foreign Applications

Covidien Docket No.	Serial number	Title	Filing date
H-EB-00085	12000984	ENERGY-DELIVERY DEVICE INCLUDING ULTRASOUND TRANSDUCER ARRAY AND PHASED ANTENNA ARRAY	2/15/2012
H-EB-00121	12001841.1	ENERGY-BASED ABLATION COMPLETION ALGORITHM	3/19/2012
H-EB-00129	12002535.8	MICROWAVE TISSUE DISSECTION AND COAGULATION	4/10/2012
H-EB-00134	12002536.6	MICROWAVE ABLATION INSTRUMENT WITH INTERCHANGEABLE ANTENNA PROBE	4/10/2012
H-EB-00154	11010176.3	ENERGY-DELIVERY DEVICES WITH FLEXIBLE FLUID-COOLED SHAFT, INFLOW/OUTFLOW JUNCTIONS SUITABLE FOR USE WITH SAME, AND SYSTEMS INCLUDING SAME	12/23/2011
H-EB-00155	11010177.1	ENERGY-DELIVERY DEVICES WITH FLEXIBLE FLUID-COOLED SHAFT, INFLOW/OUTFLOW JUNCTIONS SUITABLE FOR USE WITH SAME, AND SYSTEMS INCLUDING SAME	12/23/2011
H-EB-00156	11010093	ENERGY-DELIVERY DEVICES WITH FLEXIBLE FLUID-COOLED SHAFT, INFLOW/OUTFLOW JUNCTIONS SUITABLE FOR USE WITH SAME, AND SYSTEMS INCLUDING SAME	12/22/2011
H-EB-00227	11010024.5	MICROWAVE FIELD-DETECTING NEEDLE ASSEMBLIES, METHODS OF MANUFACTURING SAME, METHODS OF ADJUSTING AN ABLATION FIELD RADIATING INTO TISSUE USING SAME, AND SYSTEMS INCLUDING SAME	12/20/2011
H-EB-00248	12000985.7	ENERGY-DELIVERY DEVICE INCLUDING ULTRASOUND TRANSDUCER ARRAY AND PHASED ANTENNA ARRAY, AND METHODS OF ADJUSTING AN ABLATION FIELD RADIATING INTO TISSUE USING SAME	2/15/2012
H-US-01179	9704429.1	CHOKED DIELECTRIC LOADED TIP DIPOLE MICROWAVE ANTENNA	7/23/2010
H-US-01252	10720056	POWER-STAGE ANTENNA INTEGRATED SYSTEM	4/28/2010
H-US-01285	10001767.2	LEAKY-WAVE ANTENNAS FOR MEDICAL APPLICATIONS	2/22/2010

SCHEDULE A

Pending Foreign Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-01593	100006373.4	MICROWAVE ABLATION ANTENNA RADIATION DETECTOR	6/18/2010
H-US-01722	10007399.8	HIGH EFFICIENCY MICROWAVE AMPLIFIER	7/16/2010
H-US-01723	10008850.9	MICROWAVE ABLATION WITH TISSUE TEMPERATURE MONITORING	8/25/2010
H-US-01735	10005533.4	ELECTROSURGICAL DEVICES WITH DIRECTIONAL RADIATION PATTERN	5/27/2010
H-US-01736	10008139.7	ELECTROSURGICAL DEVICES HAVING DIELECTRIC LOADED COAXIAL APERTURE WITH DISTALLY POSITIONED RESONANT STRUCTURE AND METHOD OF MANUFACTURING SAME	8/4/2010
H-US-01737	10008140.5	DIRECTIVE WINDOW ABLATION ANTENNA WITH DIELECTRIC LOADING	8/4/2010
H-US-01738	10008533.1	SURFACE ABLATION ANTENNA WITH DIELECTRIC LOADING	8/16/2010
H-US-01789	11000913.1	ELECTROSURGICAL DEVICES WITH CHOKE SHORTED TO BIOLOGICAL TISSUE	2/4/2011
H-US-01792	10009392.1	METHOD FOR CONSTRUCTING A DIPOLE ANTENNA	9/9/2010
H-US-01794	1011750.6	MATERIAL FUSING APPARATUS, SYSTEM AND METHOD OF USE	9/29/2010
H-US-01795	12000335.5	DUAL ANTENNA MICROWAVE RESECTION AND ABLATION DEVICE, SYSTEM AND METHOD OF USE	1/19/2012
H-US-01798	10010942	ELECTROSURGICAL DEVICES, DIRECTIONAL REFLECTOR ASSEMBLIES COUPLEABLE THERETO, AND ELECTROSURGICAL SYSTEMS INCLUDING SAME	9/27/2010
H-US-01844	10014675.2	TWIN SEALING CHAMBER HUB	11/16/2010
H-US-01850	10010943.8	MICROWAVE SURFACE ABLATION USING CONICAL PROBE	9/27/2010
H-US-01851	10005534.2	NARROW GAUGE HIGH STRENGTH CHOKED WET TIP MICROWAVE ABLATION ANTENNA	5/27/2010

SCHEDULE A

Pending Foreign Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-01866	10014705.7	ELECTROMAGNETIC ENERGY DELIVERY DEVICES INCLUDING AN ENERGY APPLICATOR ARRAY AND ELECTROSURGICAL SYSTEMS INCLUDING SAME	11/17/2010
H-US-01900	11003822.1	ELECTROSURGICAL DEVICES WITH BALUN STRUCTURE FOR AIR EXPOSURE OF ANTENNA RADIATING SECTION AND METHOD OF DIRECTING ENERGY TO TISSUE USING SAME	5/10/2011
H-US-01901	10009732.8	SYSTEM AND METHOD FOR CHECKING HIGH POWER MICROWAVE ABLATION SYSTEM STATUS ON STARTUP	9/16/2010
H-US-01915	11002477.5	ABLATION DEVICES WITH ADJUSTABLE RADIATING SECTION LENGTHS, ELECTROSURGICAL SYSTEMS INCLUDING SAME, AND METHODS OF ADJUSTING ABLATION FIELDS USING SAME	3/24/2011
H-US-01919	11000669.9	SYSTEM AND METHOD FOR PERFORMING AN ELECTROSURGICAL PROCEDURE USING AN ABLATION DEVICE WITH AN INTEGRATED IMAGING DEVICE	1/27/2011
H-US-01921	11004942.6	MICROWAVE GROUND PLANE ANTENNA PROBE	6/16/2011
H-US-01923	11001181.4	SELF-TUNING MICROWAVE ABLATION PROBE	2/14/2011
H-US-01928	11001872.8	MICROWAVE ANTENNA PROBE HAVING A DEPLOYABLE GROUND PLANE	3/7/2011
H-US-01994	11000203.7	ABLATION DEVICE WITH USER INTERFACE AT DEVICE HANDLE, SYSTEMS INCLUDING SAME, AND METHOD OF ABLATING TISSUE USING SAME	1/12/2011
H-US-02103	11000548.5	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	1/24/2011
H-US-02105	10014080.5	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	10/28/2010
H-US-02106	10014042.5	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	10/27/2010
H-US-02107	11001596.3	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	2/25/2011

SCHEDULE A

Pending Foreign Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-02108	10014081.3	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	10/28/2010
H-US-02206	12000334.8	SYSTEM AND METHOD FOR ABLATION PROCEDURE MONITORING USING ELECTRODES	1/19/2012
H-US-02333	11008506.5	MICROWAVE SPACERS AND METHOD OF USE	10/24/2011
H-US-02393	11001182.2	ABLATION DEVICES WITH DUAL OPERATING FREQUENCIES, SYSTEMS INCLUDING SAME, AND METHODS OF ADJUSTING ABLATION VOLUME USING SAME	2/14/2011
H-US-02394	11005827.8	DUAL ANTENNA ASSEMBLY WITH USER-CONTROLLED PHASE SHIFTING	7/15/2011
H-US-02418	11002476.7	MICROWAVE SURFACE COAGULATOR WITH RETRACTABLE BLADE	3/24/2011
H-US-02455	11010046.8	MICROWAVE FIELD-DETECTING NEEDLE ASSEMBLIES, METHODS OF MANUFACTURING SAME, METHODS OF ADJUSTING AN ABLATION FIELD RADIATING INTO TISSUE USING SAME, AND SYSTEMS INCLUDING SAME	12/21/2011
FRANCE			
H-US-00757	8007924.7	COOLED HELICAL ANTENNA FOR MICROWAVE ABLATION	4/24/2008
H-US-00817	9151736.7	ARTICULATING ABLATION DEVICE AND METHOD	1/30/2009
H-US-00896	8011705.4	BROADBAND MICROWAVE APPLICATOR	6/27/2008
H-US-00943	8013605.4	ELECTROSURGICAL SYSTEMS AND PRINTED CIRCUIT BOARDS FOR USE THEREWITH	7/29/2008
H-US-00496 DIV 2	10004950.1	HIGH STRENGTH MICROWAVE ANTENNA ASSEMBLIES AND METHODS OF USE	10/29/2002
H-US-01789	11000913.1	ELECTROSURGICAL DEVICES WITH CHOKE SHORTED TO BIOLOGICAL TISSUE	2/4/2011
H-US-01792	10009392.1	METHOD FOR CONSTRUCTING A DIPOLE ANTENNA	9/9/2010
H-US-01794	1011750.6	MATERIAL FUSING APPARATUS, SYSTEM AND METHOD OF USE	9/29/2010

SCHEDULE A

Pending Foreign Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-01850	10010943.8	MICROWAVE SURFACE ABLATION USING CONICAL PROBE	9/27/2010
H-US-02105	10014080.5	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	10/28/2010
GERMANY			
H-US-00757	8007924.7	COOLED HELICAL ANTENNA FOR MICROWAVE ABLATION	4/24/2008
H-US-00817	9151736.7	ARTICULATING ABLATION DEVICE AND METHOD	1/30/2009
H-US-00896	8011705.4	BROADBAND MICROWAVE APPLICATOR	6/27/2008
H-US-00943	8013605.4	ELECTROSURGICAL SYSTEMS AND PRINTED CIRCUIT BOARDS FOR USE THEREWITH	7/29/2008
H-US-00496 DIV 2	10004950.1	HIGH STRENGTH MICROWAVE ANTENNA ASSEMBLIES AND METHODS OF USE	10/29/2002
H-US-01789	11000913.1	ELECTROSURGICAL DEVICES WITH CHOKE SHORTED TO BIOLOGICAL TISSUE	2/4/2011
H-US-01792	10009392.1	METHOD FOR CONSTRUCTING A DIPOLE ANTENNA	9/9/2010
H-US-01794	1011750.6	MATERIAL FUSING APPARATUS, SYSTEM AND METHOD OF USE	9/29/2010
H-US-01850	10010943.8	MICROWAVE SURFACE ABLATION USING CONICAL PROBE	9/27/2010
H-US-02105	10014080.5	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	10/28/2010
GREAT BRITAIN			
H-US-00757	8007924.7	COOLED HELICAL ANTENNA FOR MICROWAVE ABLATION	4/24/2008
H-US-00817	9151736.7	ARTICULATING ABLATION DEVICE AND METHOD	1/30/2009
H-US-00896	8011705.4	BROADBAND MICROWAVE APPLICATOR	6/27/2008
H-US-00943	8013605.4	ELECTROSURGICAL SYSTEMS AND PRINTED CIRCUIT BOARDS FOR USE THEREWITH	7/29/2008
H-US-00496	10004950.1	HIGH STRENGTH MICROWAVE ANTENNA ASSEMBLIES AND METHODS OF USE	10/29/2002

SCHEDULE A

Pending Foreign Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-01789	11000913.1	ELECTROSURGICAL DEVICES WITH CHOKE SHORTED TO BIOLOGICAL TISSUE	2/4/2011
H-US-01792	10009392.1	METHOD FOR CONSTRUCTING A DIPOLE ANTENNA	9/9/2010
H-US-01794	1011750.6	MATERIAL FUSING APPARATUS, SYSTEM AND METHOD OF USE	9/29/2010
H-US-01850	10010943.8	MICROWAVE SURFACE ABLATION USING CONICAL PROBE	9/27/2010
H-US-02105	10014080.5	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	10/28/2010
IRELAND			
H-US-00757	8007924.7	COOLED HELICAL ANTENNA FOR MICROWAVE ABLATION	4/24/2008
H-US-00817	9151736.7	ARTICULATING ABLATION DEVICE AND METHOD	1/30/2009
H-US-00896	8011705.4	BROADBAND MICROWAVE APPLICATOR	6/27/2008
H-US-00943	8013605.4	ELECTROSURGICAL SYSTEMS AND PRINTED CIRCUIT BOARDS FOR USE THEREWITH	7/29/2008
H-US-00496 DIV 2	10004950.1	HIGH STRENGTH MICROWAVE ANTENNA ASSEMBLIES AND METHODS OF USE	10/29/2002
H-US-01792	10009392.1	METHOD FOR CONSTRUCTING A DIPOLE ANTENNA	9/9/2010
H-US-01794	1011750.6	MATERIAL FUSING APPARATUS, SYSTEM AND METHOD OF USE	9/29/2010
H-US-01850	10010943.8	MICROWAVE SURFACE ABLATION USING CONICAL PROBE	9/27/2010
H-US-02105	10014080.5	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	10/28/2010
ITALY			
H-US-00757	8007924.7	COOLED HELICAL ANTENNA FOR MICROWAVE ABLATION	4/24/2008
H-US-00817	9151736.7	ARTICULATING ABLATION DEVICE AND METHOD	1/30/2009
H-US-00943	8013605.4	ELECTROSURGICAL SYSTEMS AND PRINTED CIRCUIT BOARDS FOR USE THEREWITH	7/29/2008
JAPAN			
H-US-02105	2010-241818	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	10/28/2010

SCHEDULE A

Pending Foreign Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-02108	2010-241881	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	10/28/2010
H-US-00546 DIV	2012-256540	MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	9/28/2007
H-US-00817	2009-20696	ARTICULATING ABLATION DEVICE AND METHOD	1/30/2009
H-US-00932	2008-235231	FREQUENCY TUNING IN A MICROWAVE ELECTROSURGICAL SYSTEM	9/12/2008
H-US-01039	2009-12392	THERMALLY TUNED COAXIAL CABLE FOR MICROWAVE ANTENNAS	1/22/2009
H-US-01583	2009-239894	CHOKED DIELECTRIC LOADED TIP DIPOLE MICROWAVE ANTENNA	10/16/2009
H-EB-00038	2012-052613	SYSTEMS FOR THERMAL-FEEDBACK-CONTROLLED RATE OF FLUID FLOW TO FLUID-COOLED ANTENNA ASSEMBLY AND METHODS OF DIRECTING ENERGY TO TISSUE USING SAME	3/9/2012
H-EB-00045	2011-287386	ENERGY-DELIVERY DEVICES WITH FLEXIBLE FLUID-COOLED SHAFT, INFLOW/OUTFLOW JUNCTIONS SUITABLE FOR USE IWTH SAME, AND SYSTEMS INCLUDING SAME	12/28/2011
H-EB-00053	2012-011039	TISSUE DISSECTORS	1/23/2012
H-EB-00062	2011-247231	APPARATUS, SYSTEM AND METHOD FOR PERFORMING AN ELECTROSURGICAL PROCEDURE	11/11/2011
H-EB-00085	2012-029390	ENERGY-DELIVERY DEVICE INCLUDING ULTRASOUND TRANSDUCER ARRAY AND PHASED ANTENNA ARRAY	2/14/2012
H-EB-00121	2012-061668	ENERGY-BASED ABLATION COMPLETION ALGORITHM	3/19/2012
H-EB-00129	2012-087291	MICROWAVE TISSUE DISSECTION AND COAGULATION	4/6/2012
H-EB-00134	2012-087246	MICROWAVE ABLATION INSTRUMENT WITH INTERCHANGEABLE ANTENNA PROBE	4/6/2012
H-EB-00154	2011-283289	ENERGY-DELIVERY DEVICES WITH FLEXIBLE FLUID-COOLED SHAFT, INFLOW/OUTFLOW JUNCTIONS SUITABLE FOR USE IWTH SAME, AND SYSTEMS INCLUDING SAME	12/26/2011

SCHEDULE A

Pending Foreign Applications

Covidien Docket No.	Serial number	Title	Filing date
H-EB-00155	2011-283440	ENERGY-DELIVERY DEVICES WITH FLEXIBLE FLUID-COOLED SHAFT, INFLOW/OUTFLOW JUNCTIONS SUITABLE FOR USE WITH SAME, AND SYSTEMS INCLUDING SAME	12/26/2011
H-EB-00156	2011-282887	ENERGY-DELIVERY DEVICES WITH FLEXIBLE FLUID-COOLED SHAFT, INFLOW/OUTFLOW JUNCTIONS SUITABLE FOR USE WITH SAME, AND SYSTEMS INCLUDING SAME	12/26/2011
H-EB-00227	2011-276800	MICROWAVE FIELD-DETECTING NEEDLE ASSEMBLIES, METHODS OF MANUFACTURING SAME, METHODS OF ADJUSTING AN ABLATION FIELD RADIATING INTO TISSUE USING SAME, AND SYSTEMS INCLUDING SAME	12/19/2011
H-EB-00248	2012-028085	ENERGY-DELIVERY DEVICE INCLUDING ULTRASOUND TRANSDUCER ARRAY AND PHASED ANTENNA ARRAY, AND METHODS OF ADJUSTING AN ABLATION FIELD RADIATING INTO TISSUE USING SAME	2/13/2012
H-EB-00410	2012-202211	HANDHELD MEDICAL DEVICES INCLUDING MICROWAVE AMPLIFIER UNIT AT DEVICE HANDLE	9/14/2012
H-US-01179	2010-544404	CHOKED DIELECTRIC LOADED TIP DIPOLE MICROWAVE ANTENNA	1/22/2009
H-US-01252	2012-509844	POWER-STAGE ANTENNA INTEGRATED SYSTEM	4/28/2010
H-US-01593	2010-139423	MICROWAVE ABLATION ANTENNA RADIATION DETECTOR	6/18/2010
H-US-01593 CIP 2	2012-107396	LAPAROSCOPIC PORT WITH MICROWAVE RECTIFIER	5/9/2012
H-US-01722	2010-161455	HIGH EFFICIENCY MICROWAVE AMPLIFIER	7/16/2010
H-US-01723	2010-187961	MICROWAVE ABLATION WITH TISSUE TEMPERATURE MONITORING	8/25/2010
H-US-01736	2010-175112	ELECTROSURGICAL DEVICES HAVING DIELECTRIC LOADED COAXIAL APERTURE WITH DISTALLY POSITIONED RESONANT STRUCTURE AND METHOD OF MANUFACTURING SAME	8/4/2010

Covidien Docket No.	Serial number	Title	Filing date
H-US-01737	2010-174603	DIRECTIVE WINDOW ABLATION ANTENNA WITH DIELECTRIC LOADING	8/3/2010
H-US-01738	2010-181337	SURFACE ABLATION ANTENNA WITH DIELECTRIC LOADING	8/13/2010
H-US-01789	2011-015136	ELECTROSURGICAL DEVICES WITH CHOKE SHORTED TO BIOLOGICAL TISSUE	1/27/2011
H-US-01791	2012-121524	MODIFIED WET TIP ANTENNA DESIGN	5/29/2012
H-US-01792	2010-200996	METHOD FOR CONSTRUCTING A DIPOLE ANTENNA	9/8/2010
H-US-01795	2012-010801	DUAL ANTENNA MICROWAVE RESECTION AND ABLATION DEVICE, SYSTEM AND METHOD OF USE	1/23/2012
H-US-01798	2010-214756	ELECTROSURGICAL DEVICES, DIRECTIONAL REFLECTOR ASSEMBLIES COUPLEABLE THERETO, AND ELECTROSURGICAL SYSTEMS INCLUDING SAME	9/27/2010
H-US-01844	2010-255534	TWIN SEALING CHAMBER HUB	11/16/2010
H-US-01850	2010-214804	MICROWAVE SURFACE ABLATION USING CONICAL PROBE	9/27/2010
H-US-01900	2011-100326	ELECTROSURGICAL DEVICES WITH BALUN STRUCTURE FOR AIR EXPOSURE OF ANTENNA RADIATING SECTION AND METHOD OF DIRECTING ENERGY TO TISSUE USING SAME	4/28/2011
H-US-01901	2010-206698	SYSTEM AND METHOD FOR CHECKING HIGH POWER MICROWAVE ABLATION SYSTEM STATUS ON STARTUP	9/15/2010
H-US-01915	2011-64370	ABLATION DEVICES WITH ADJUSTABLE RADIATING SECTION LENGTHS, ELECTROSURGICAL SYSTEMS INCLUDING SAME, AND METHODS OF ADJUSTING ABLATION FIELDS USING SAME	3/23/2011
H-US-01919	2011-12862	SYSTEM AND METHOD FOR PERFORMING AN ELECTROSURGICAL PROCEDURE USING AN ABLATION DEVICE WITH AN INTEGRATED IMAGING DEVICE	1/25/2011
H-US-01921	2011-134687	MICROWAVE GROUND PLANE ANTENNA PROBE	6/17/2011

Covidien Docket No.	Serial number	Title	Filing date
H-US-01923	2011-029452	SELF-TUNING MICROWAVE ABLATION PROBE	2/15/2011
H-US-01928	2011-047874	MICROWAVE ANTENNA PROBE HAVING A DEPLOYABLE GROUND PLANE	3/4/2011
H-US-01993	2010-206705	TISSUE ABLATION SYSTEM WITH ENERGY DISTRIBUTION	9/15/2010
H-US-01994	2011-3083	ABLATION DEVICE WITH USER INTERFACE AT DEVICE HANDLE, SYSTEMS INCLUDING SAME, AND METHOD OF ABLATING TISSUE USING SAME	1/11/2011
H-US-01999	2011-014527	SENSORS ON PATIENT SIDE FOR A MICROWAVE GENERATOR	2/28/2011
H-US-02103	2011-8938	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	1/19/2011
H-US-02106	2010-240441	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	10/27/2010
H-US-02107	2011-037972	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	2/25/2011
H-US-02206	2012-010935	SYSTEM AND METHOD FOR ABLATION PROCEDURE MONITORING USING ELECTRODES	1/23/2012
H-US-02333	2011-232681	MICROWAVE SPACERS AND METHOD OF USE	10/24/2011
H-US-02393	2011-029431	ABLATION DEVICES WITH DUAL OPERATING FREQUENCIES, SYSTEMS INCLUDING SAME, AND METHODS OF ADJUSTING ABLATION VOLUME USING SAME	2/15/2011
H-US-02394	2011-156313	DUAL ANTENNA ASSEMBLY WITH USER-CONTROLLED PHASE SHIFTING	7/15/2011
H-US-02418	2011-64080	MICROWAVE SURFACE COAGULATOR WITH RETRACTABLE BLADE	3/23/2011
H-US-02455	2011-278058	MICROWAVE FIELD-DETECTING NEEDLE ASSEMBLIES, METHODS OF MANUFACTURING SAME, METHODS OF ADJUSTING AN ABLATION FIELD RADIATING INTO TISSUE USING SAME, AND SYSTEMS INCLUDING SAME	12/20/2011
H-US-00497 DIV	2010-130429	DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS	7/13/2004
H-US-00497 DIV 2	2010-130430	DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS	7/13/2004

SCHEDULE A

Pending Foreign Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-00546	2007-256540	MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	9/28/2007
H-US-00731	2008-161057	REFLECTIVE POWER MONITORING FOR MICROWAVE APPLICATIONS	6/19/2008
H-US-00757	2008-114389	COOLED HELICAL ANTENNA FOR MICROWAVE ABLATION	4/24/2008
H-US-00819	2009-48620	INTRACOOLED PERCUTANEOUS MICROWAVE ABLATION PROBE	3/2/2009
H-US-00849	2008-292811	DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSUE ABLATION	11/14/2008
H-US-00896	2008-169614	BROADBAND MICROWAVE APPLICATOR	6/27/2008
H-US-00943	2008-195532	ELECTROSURGICAL SYSTEMS AND PRINTED CIRCUIT BOARDS FOR USE THEREWITH	7/29/2008
H-US-01037	2009-231025	COMBINED FREQUENCY MICROWAVE ABLATION SYSTEM, DEVICES AND METHODS OF USE	10/2/2009
H-US-01038	2009-83523	RE-HYDRATION ANTENNA FOR MICROWAVE ABLATION	3/30/2009
H-US-01043	2009-204062	SHIELDING FOR AN ISOLATION APPARATUS USED IN A MICROWAVE GENERATOR	9/3/2009
H-US-01081	2008-301755	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	11/26/2008
H-US-01109	2008-301757	SYSTEM AND METHOD FOR FIELD ABLATION PREDICTION	11/26/2008
H-US-01110	2009-225624	MICROWAVE ABLATION GENERATOR CONTROL SYSTEM	9/29/2009
H-US-01181	2009-228827	DELIVERED ENERGY GENERATOR FOR MICROWAVE ABLATION	9/30/2009
H-US-01189	2009-129719	SLIDABLE CHOKE MICROWAVE ANTENNA	5/28/2009
H-US-01239	2009-193364	MICROWAVE ANTENNA ASSEMBLY HAVING A DIELECTRIC BODY PORTION WITH RADIAL PARTITIONS OF DIELECTRIC MATERIAL	8/24/2009
H-US-01285	2010-36673	LEAKY-WAVE ANTENNAS FOR MEDICAL APPLICATIONS	2/22/2010
H-US-01543	2010-85592	MICROWAVE ABLATION SYSTEM WITH USER-CONTROLLED ABLATION SIZE AND METHOD OF USE	4/1/2010

SCHEDULE A

Pending Foreign Applications

Covidien Docket No.	Serial number	Title	Filing date
H-US-01630	2009-193371	DUAL-BAND DIPOLE MICROWAVE ABLATION ANTENNA	8/24/2009
H-US-01631	2009-204067	MICROWAVE SHIELDING APPARATUS	9/3/2009
H-US-01677	2009-225620	MICROWAVE SYSTEM TUNER	9/30/2009
H-US-01679	2009-225622	SYSTEM, APPARATUS AND METHOD FOR DISSIPATING STANDING WAVE IN A MICROWAVE DELIVERY SYSTEM	9/29/2009
H-US-01680	2009-225623	INTERMITTENT MICROWAVE ENERGY DELIVERY SYSTEM	9/29/2009
H-US-01735	2010-126353	ELECTROSURGICAL DEVICES WITH DIRECTIONAL RADIATION PATTERN	6/1/2010
H-US-01847	2010-115832	TISSUE IMPEDANCE MEASUREMENT USING A SECONDARY FREQUENCY	5/19/2010
H-US-01851	2010-121048	NARROW GAUGE HIGH STRENGTH CHOKED WET-TIP MICROWAVE ABLATION ANTENNA	5/26/2010
KOREA			
H-US-01179	10-2010-7017468	CHOKED DIELECTRIC LOADED TIP DIPOLE MICROWAVE ANTENNA	1/22/2009
SPAIN			
H-US-00757	8007924.7	COOLED HELICAL ANTENNA FOR MICROWAVE ABLATION	4/24/2008
H-US-00817	9151736.7	ARTICULATING ABLATION DEVICE AND METHOD	1/30/2009