#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3274239

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
SEQUENCE:	2

#### **CONVEYING PARTY DATA**

Name	Execution Date
VIVANT MEDICAL LLC	12/28/2012

#### **RECEIVING PARTY DATA**

Name:	COVIDIEN LP			
Street Address:	eet Address: 15 HAMPSHIRE STREET			
City:	MANSFIELD			
State/Country:	MASSACHUSETTS			
Postal Code:	02048			

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14629983

#### **CORRESPONDENCE DATA**

**Fax Number:** (303)581-6632

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** 303-530-2300

Email: SURGICALUS@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-02393CON
NAME OF SUBMITTER:	GIORDANA M. BELENCHIA
SIGNATURE:	/Giordana M. BELENCHIA/ Reg. #63680
DATE SIGNED:	03/20/2015

#### **Total Attachments: 50**

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#### **ASSIGNMENT**

WHEREAS, Vivant Medical, 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;

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- (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 Medical, LLC	
Signature: XXX	Name: JOHN W. KAPPLES  Type or print the name of the person authorized to
Date: 12/28/12	sign on behalf of ASSIGNOR (Vivant Medical, LLC)  Title: SECLETARY
Note: No witnessing notarization or legalization is neces	sary. If the assignment is notarized or legalized then it w

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.

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[] Notarization or Legalization Page Added

WITNESS:

Signature:

Date:

12/28/12

Location:

MANSFIELD MA

ACCEPTED:

Covidien LP

By:

Title:

SECRETARY

PATENT

ovidien Docket	Serial	Title F	Iling«date	Issue date li	saue number
No.	number	ISSUED US PATENTS	The state of the s		
·US-00499	09/145487	PERCUTANEOUS FISSUE REMOVAL DEVICE	9/1/1998	10/24/2000	6136014
		EXPANDABLE RING PERCUTANEOUS TISSUE REMOVAL DEVICE	11/2/1998	3/14/2000	6036698
-US-00501 CIP		MODULAR BIOPSY AND MICROWAVE ABLATION NEEDLE DELIVERY APPARATUS ADAPTED TO IN SITU ASSEMBLY AND	2474000	10/23/2001	6306132
H-US-00503	09/336371	METHOD OF USE	6/17/1999	10/23/2001	
H-US-00503 CIP	09/356077	TRACK ABLATION DEVICE AND METHODS OF USE	7/16/1999	3/12/2002	6355033
H-US-00501 CIP	09/449006	EXPANDABLE RING PERCUTANEOUS TISSUE REMOVAL DEVICE NEEDLE KIT AND	11/24/199	9 10/29/2002	6471709
H-US-00503 CIP	09/827528	METHOD FOR MICROWAVE ABLATION, TRACK COAGULATION, AND	4/6/200	01 6/24/200	3 6582426
H-US-00503 DIV	10/035793	MODULAR BIOPSY AND MICROWAVE ABLATION NEEDLE DELIVERY APPARATUS ADAPTED TO IN SITU ASSEMBLY AND		01 11/25/20	03 665252
	10/05284	HIGH STRENGTH MICROWAVE ANTENN 8 ASSEMBLIES	NA 11/2/20	001 4/12/20	05 687814
H-US-00496 H-US-00498 (1)	10/03204	LOCALIZATION ELEMENT WITH	10/15/2	002 6/22/20	004 67527
H-US-00496 CIP	10/2720	HIGH STRENGTH MICROWAVE ANTEN ASSEMBLIES AND METHODS OF USE	NA 10/15/2	002 10/31/2	006 71287

Covidien Dockebil No:	Serial number	Tiltle	Filling date	ssue date. I	ssue number
	10/272314	MICROWAVE ANTENNA HAVING A CURVED CONFIGURATION	10/15/2002	3/27/2007	7197363
-US-00503 CIP		NEEDLE KIT AND METHOD FOR MICROWAVE ABLATION, TRACK COAGULATION, AND BIOPSY	5/1/2003	1/9/2007	7160292
I-US-00497		DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS LOCALIZATION	7/18/2003	12/25/2007	7311703
1-US-00498 CON	10/833598	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	714763
H-US-00497 DIV	11/053987	DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS	2/8/200	5 1/25/201	1 787502
H-US-00500	11/126531	REINFORCED HIGH STRENGTH MICROWAVE ANTENNA	5/10/200	5 9/21/201	0 779901
H-US-00496 CON 2	2 11/493392	HIGH STRENGTH MICROWAVE ANTENN ASSEMBLIES	A 7/26/200	6 5/5/200	9 75276
H-US-00496 DIV 2		METHOD OF MANUFACTURING A MICROWAVE ANTENN ASSEMBLY	A 7/26/200	06 9/29/20	09 75943
H-US-00496 CIP CON	11/50803	HIGH STRENGTH MICROWAVE ANTENN ASSEMBLIES AND METHODS OF USE	NA 8/22/20	06 1/4/20	78625

**PATENT** 

Coyldien Docket	Serial	Title	Filing date	lesue date	ssue number
No.		MICROWAVE ANTENNA	715 WE CH. (108-20-		
		ASSEMBLY AND METHOD OF USING THE SAME	9/29/2006	11/29/2011	8068921
I-US-00546	1,,02,000	COOLED HELICAL	4/05/2007	8/16/2011	7998139
H-US-00757	11/789521	ANTENNA FOR MICROWAVE CABLE	4/25/2007		
H-US-00691	11/820193	COOLING	6/18/2007	8/17/2010	7777130
H-US-00943		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		3 7/3/2012	821109
H-US-01205	12/199935	MICROWAVE ANTENNA	8/28/200	8 8/28/2012	825198
H-US-01676	12/241905	MICROWAVE SYSTEM CALIBRATION APPARATUS, SYSTEM AND METHOD OF USE	9/30/200	8 5/15/201	2 818043
H-US-01679	12/242026	SYSTEM, APPARATUS AND METHOD FOR DISSIPATING STANDING WAVE IN A MICROWAVE		08 8/21/201	2 82480
H-US-01680	12/242061	INTERMITTENT MICROWAVE ENERGY	9/30/20	08 5/8/20 <sup>-</sup>	12 81742

<b>Covidien Docket</b>	Serial	Title	Iling date	Issue date   I	ssue number
No.	number	MICROWAVE			
J-US-01110	12/242102	ABLATION GENERATOR CONTROL SYSTEM	9/30/2008	8/14/2012	8242782
1-05-01110		FLOATING CONNECTOR FOR MICROWAVE	4440/0009	5/11/2010	7713076
1-US-01081 (1)	12/273411	SURGICAL DEVICE	11/18/2008	3/11/2010	
·		SYSTEM AND METHOD FOR FIELD ABLATION PREDICTION	11/20/2008	3/6/2012	8131339
H-US-01109 (1) H-US-00498 CON 2	12/331663	LOCALIZATION ELEMENT WITH ENERGIZED TIP	12/10/2008	12/7/2010	7846108
	12/351633	THERMALLY TUNED COAXIAL CABLE FOR MICROWAVE ANTENNAS	1/9/200	9 1/5/2010	7642451
H-US-01039 (1)	12/00/1000	MEDICAL DEVICE INCLUDING MEMBER THAT DEPLOYS IN A SPIRAL-LIKE CONFIGURATION AND			
	12/353617	METHOD	1/14/200	9 9/11/2012	8262703
H-US-00845 (1) H-US-00942 CON	12/358067	ELECTRICAL RECEPTACLE ASSEMBLY	1/22/200	9 8/10/201	0 7771201
		LEAKY-WAVE ANTENNAS FOR MEDICAL APPLICATIONS	2/20/20	09 6/12/201	2 8197473
H-US-01285	12/389906	LEAKY-WAVE ANTENNAS FOR MEDICAL	2/20/20	009 6/19/20	12 820227
H-US-01687 H-US-01269 (1)	12/399913	HIGH-STRENGTH MICROWAVE ANTENN 2 COUPLING	IA 3/6/20	009 8/21/20	12 824661
H-US-01649	12/40126	COOLED DIELECTRICALLY BUFFERED MICROWAVE DIPOLE ANTENNA	3/10/2	009 2/21/20	012 81188
H-US-00496 CON	13 12/41939	HIGH-STRENGTH MICROWAVE ANTEN ASSEMBLIES	NA 4/7/2	2009 10/11/2	011 80355

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Covidien Docket	Serial number	Title	Filing date	Issue date Iss	ue number
No.		POWER STAGE-			
	ļ	ANTENNA INTEGRATED SYSTEM WITH JUNCTION MEMBER	5/6/2009	7/10/2012	8216227
-US-02055		TISSUE IMPEDANCE MEASUREMENT USING A SECONDARY FREQUENCY	5/19/2009	8/21/2012	8246615
-US-01847	12.	ELECTROSURGICAL DEVICES WITH DIRECTIONAL RADIATION PATTERN	6/2/2009	8/7/2012	8235981
I-US-01735	12/476960	HIGH EFFICIENCY MICROWAVE AMPLIFIER	7/17/2009	1/4/2011	7863984
1-US-01722	12/508700	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	7/24/200	9 7 <i>/6/</i> 2010	7749011
H-US-01081 DIV H-US-01792	12/556238	METHOD FOR CONSTRUCTING A DIPOLE ANTENNA	9/9/200	9 12/6/2011	8069553
H-US-01039 CON	12/651762	THERMALLY TUNED COAXIAL CABLE FOR MICROWAVE ANTENNAS	1/4/201	10 9/4/2012	8258399
	12/769457	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	4/28/20	10 6/21/2011	796378
H-US-01081 CON		MICROWAVE CABLE COOLING	6/14/20	10 1/10/2012	809350
H-US-00691 DIV	12/814787	REINFORCED HIGH STRENGTH	NA 8/20/20	9/6/2011	801214
H-US-00500 CON		REINFORCED HIGH STRENGTH 3 MICROWAVE ANTENI	NA 8/22/2	011 6/5/2012	819242
	29/34141	MEDICAL DEVICE  1 INDICATOR GUIDE	8/5/2	009 3/8/201	1 D634010
H-US-01896 H-US-02270	29/34141	VENTED MICROWAV	E 8/6/2	009 4/6/201	0 D613412

**PATENT** 

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	Serial	Title	Filing date
Covidien Docket No.	number 115	PATENT APPLICATIONS	
	1	JEEDLE KIT AND METHOD FOR	
	l li	MICROWAVE, TRACK COAGULATION,	12/18/2006
-US-00503 CIP CON 3	44/640624	AND BIOPSY	12/16/2000
-05-00505 CII OCK C	<del> </del>	MICROWAVE ANTENNA HAVING A	3/5/2007
-US-00498 CON 2	11/713927	CURVED CONFIGURATION	
		ACCORDIAN STYLE CABLE STAND-OFF	5/1/2007
-US-00680	11/799374	ENERGY DELIVERY CONDUITS FOR	
		USE WITH ELECTROSURGICAL	
	1 1	DEVICES	5/22/2007
I-US-00747	11/805052		
		REFLECTIVE POWER MONITORING	0/00/0007
00721	11/820679	FOR MICROWAVE APPLICATIONS	6/20/2007
1-US-00731		BROADBAND MICROWAVE	6/28/2007
H-US-00896	11/823639	APPLICATOR	0/20/2001
1-00-0000		FREQUENCY TUNING IN A	
		MICROWAVE ELECTROSURGICAL	9/13/2007
H-US-00932	11/900874	SYSTEM	
		DEVICES AND METHODS FOR	
	44/040729	COOLING MICROWAVE ANTENNAS	11/15/2007
H-US-00497 CON	11/940738	DEPLOYABLE MICROWAVE ANTENNA	
	12/147093	FOR TREATING TISSUE	6/26/2008
H-US-01218	12/14/000	TISSUE ABLATION SYSTEM WITH	7/20/200
	12/181504	PHASE-CONTROLLED CHANNELS	7/29/200
H-US-01326		DUAL-BAND DIPOLE MICROWAVE	8/25/200
H-US-01630	12/197473	ABLATION ANTENNA	0,20,200
11-00-01000		DUAL-BAND DIPOLE MICROWAVE	8/25/200
H-US-01217	12/197601	ABALATION ANTENNA	-
		MICROWAVE SHIELDING APPARATUS	9/3/200
H-US-01631	12/203474	SHIELDING FOR AN ISOLATION	
	l l	APPARATUS USED IN A MICROWAVE	- 12 12 2
	12/203734	GENERATOR	9/3/200
H-US-01043	12/240091	CABLE STAND-OFF	9/29/200
H-US-00681 (1)	12/2 10001		1
	İ	DELIVERED ENERGY GENERATOR	9/30/20
H-US-01181	12/241861	FOR MICROWAVE ABLATION	9/30/20
H-US-01677	12/241942	MICROWAVE SYSTEM TUNER	
		MICROWAVE SYSTEM CALIBRATION	1
	4000		9/30/20
H-US-01678	12/241983	ALL ARVINGO LILLS	

	Serial number	Title	Filing date
Coyldien Docket No.	TO COLUMN TO SERVICE STATE OF THE PARTY OF T	ANTENNA ASSEMBLIES FOR MEDICAL APPLICATIONS	10/13/2008
-US-01284	12/200110	APPLICATIONS ANTENNA ASSEMBLIES FOR MEDICAL APPLICATIONS	10/13/2008
I-US-01714	1,2,200	CHOKED DIELECTRIC LOADED TIP DIPOLE MICROWAVE ANTENNA	10/17/2008
1-US-01583 1-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
	12/353623	ARTICULATING ABLATION DEVICE AND METHOD	1/14/2009
H-US-00817 (1) H-US-00819	12/395034	INTRACOOLED PERCUTANEOUS MICROWAVE ABLATION PROBE	2/27/2009
	12/413011	MICROWAVE ABLATION DEVICES INCLUDING EXPANDABLE ANTENNAS AND METHODS OF USE	3/27/2009
H-US-00868 H-US-01038 (1)	12/413023	RE-HYDRATION ANTENNA FOR ABLATION	3/27/200
H-US-01543	12/416583	MICROWAVE ABLATION SYSTEM WITH USER-CONTROLLED ABLATION SIZE AND METHOD OF USE	4/1/200
H-US-01650	12/423609	FREQUENCY IDENTIFICATION FOR MICROWAVE ABLATION PROBES	4/14/200
H-US-01252	12/436231	POWER-STAGE ANTENNA INTEGRATED SYSTEM	5/6/200
H-US-02056	12/436239	POWER-STAGE ANTENNA INTEGRATED SYSTEM WITH HIGH- STRENGTH SHAFT	5/6/20
H-US-01851	12/472831	NARROW GAUGE HIGH STRENGTH CHOKED WET-TIP MICROWAVE ABLATION ANTENNA	5/27/20

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	Serial number	Title	lling date
Covidien Docket No.		MICROWAVE ABLATION SAFETY PAD,	
		MICROWAVE SAFETY PAD SYSTEM	5/29/2009
-US-01534	12/475082	AND METHOD OF USE	3/29/2000
-03-01004		MICROWAVE ABLATION ANTENNA	6/19/2009
-US-01593	12/487917	RADIATION DETECTOR	6/29/2009
-US-01740	12/493302	ABLATION PROBE FIXATION	- Or Zor Zor
-00-011 10		ELECTROSURGICAL DEVICES HAVING DIELECTRIC LOADED COAXIAL APERTURE WITH DISTALLY POSITIONED RESONANT STRUCTURE AND METHOD OF MANUFACTURING	8/5/2009
H-US-01736	12/535851	SAME	8/3/2009
	12/535856	DIRECTIVE WINDOW ABLATION ANTENNA WITH DIELECTRIC LOADING	8/5/2009
H-US-01737		VENTED POSITIONER AND SPACER	8/6/2009
H-US-01773	12/536616	AND METHOD OF USE	0/0/2000
11-00-01170		SURFACE ABLATION ANTENNA WITH	8/17/2009
H-US-01738	12/542348	DIELECTRIC LOADING	
		MICROWAVE ABLATION ANTENNA	8/18/2009
H-US-01593 CIP	12/542785	RADIATION DETECTOR	
H-US-01723	12/547155	MICROWAVE ABLATION WITH TISSUE TEMPERATURE MONITORING	8/25/2009
H-U3-01723		ECOGENIC COOLED MICROWAVE	8/27/2009
H-US-01540	12/548644	ABLATION ANTENNA	0,21,200
H-US-01793	12/555576	MICROWAVE ANTENNA PROBE WITH HIGH-STRENGTH CERAMIC COUPLER	9/8/200
	12/556010	SYSTEM AND METHOD FOR PERFORMING AN ABLATION PROCEDURE	9/9/200
H-US-01724 H-US-01790	12/561096	PERFUSED CORE DIELECTRICALLY LOADED DIPOLE MICROWAVE	9/16/200
H-02-01/30		SYSTEM AND METHOD FOR CHECKIN	1 1
	12/562575	SYSTEM STATUS ON STARTUP	9/18/20
H-US-01901	12/562842	TISSUE ABLATION SYSTEM WITH	9/18/20

**PATENT** 

A STATE OF THE STA	Serial	Title	Filing date
Govidlen Docket No.	number	OPTICAL DETECTION OF	STD LYMPHOLOGY CO.
(SOUTH AND ASSOCIATION OF THE AS	1	INTERRUPTED FLUID FLOW TO	
	1 1	ABLATION PROBE	9/24/2009
-US-01797	12/566299	FEEDPOINT OPTIMIZATION FOR	
	1	MICROWAVE ABLATION DIPOLE	
		ANTENNA WITH INTEGRATED TIP	9/28/2009
I-US-01913	12/568067	ANTENIO	
		ELECTROSURGICAL DEVICES,	
		IDIDECTIONAL REFLECTOR	
		LASSEMBLIES COUPLEABLE THERETO,	
	Į.	AND ELECTROSURGICAL SYSTEMS	01001000
04700	12/568524	INCLUDING SAME	9/28/2009
H-US-01798	12/0000	MICROWAVE SURFACE ABLATION	9/28/2009
	12/568551	USING CONICAL PROBE	9/20/2009
H-US-01850		DIEL FOTDIC	ì
		FLUID COOLED CHOKE DIELECTRIC	9/29/2009
H-US-01796	12/568777	AND COAXIAL CABLE DIELECTRIC	1 0/20/200
H-03-01790	_	MATERIAL FUSING APPARATUS,	9/29/2009
H-US-01794	12/568838	SYSTEM AND METHOD OF USE	1-0,20,000
H-03-01734		MANAGEMENT OF VOLTAGE	
		STANDING WAVE RATIO AT SKIN	
		SURFACE DURING MICROWAVE	9/29/200
H-US-01826	12/568883	ABLATION	_
11-00-01-02-0		FLOW RATE MONITOR FOR FLUID	
	1	COOLED MICROWAVE ABLATION	9/29/200
H-US-01867	12/568972	PROBE FLOW RATE MONITOR FOR FLUID	
		COOLED MICROWAVE ABLATION	
			9/29/200
H-US-01869	12/569171	PROBE FLOW RATE MONITOR FOR FLUID	
		COOLED MICROWAVE ABLATION	
	10/50005	L	9/29/20
H-US-01868	12/569685	SYSTEM AND METHOD FOR	
	40/606760	MONITORING ABLATION SIZE	10/27/20
H-US-02106	12/606769	SYSTEM AND METHOD FOR	
	12/607221	MONITORING ABLATION SIZE	10/28/20
H-US-02105	12/00/22	SYSTEM AND METHOD FOR	40/00/06
	12/607268	MONITORING ABLATION SIZE	10/28/20
H-US-02108	12/619323	THE CHAMPER HITE	11/16/20
H-US-01844	12/019020		

	Serial	Title F	iling date
Covidien Docket No.	number	ELECTROMAGNETIC ENERGY	00000000000000000000000000000000000000
		DELIVERY DEVICES INCLUDING AN	
		ENERGY APPLICATOR ARRAY AND	
		ELECTROSURGICAL SYSTEMS	11/17/2009
I-US-01866	12/620289	INCLUDING SAME	11/1/2009
1-00 01000		ADIATION SYSTEM WITH	
		MICROWAVE ABLATION SYSTEM WITH DIELECTRIC TEMPERATURE PROBE	12/18/2009
-I-US-01691	12/642623	SYSTEM AND METHOD FOR	
	40/000056	MONITORING ABLATION SIZE	1/25/2010
1-US-02103	12/692856		
		APPARATUS AND METHOD OF USE	
	12/696671	FOR TREATING BLOOD VESSELS	1/29/2010
H-US-01920	12,0000		
	I	SYSTEM AND METHOD FOR	
	l l	PERFORMING AN ELECTROSURGICAL	
		PROCEDURE USING AN ABLATION	
		DEVICE WITH AN INTEGRATED	1/29/2010
H-US-01919	12/696966	IMAGING DEVICE	1/29/2010
11-00 010 10		ELECTROSURGICAL DEVICES WITH	
		CHOKE SHORTED TO BIOLOGICAL	2/5/2010
H-US-01789	12/701030	TISSUE BIPOLAR ELECTRODE PROBES FOR	
		ABLATION MONITORING	2/19/2010
H-US-02102	12/708974	ABLATION DEVICES WITH DUAL	
		OPERATING FREQUENCIES, SYSTEMS	ł
	<b>,</b>	INCLUDING SAME, AND METHODS OF	1
		ADUSTING ABLATION VOLUME USING	
	12/709014	SAME	2/19/201
H-US-02393	12/100011	SYSTEM AND METHOD FOR	2/25/201
H-US-02107	12/712864	MONITORING ABLATION SIZE	2/25/201
H-03-02107		SELF-TUNING MICROWAVE ABLATION	2/26/201
H-US-01923	12/713429	PROBE AND SWAVE ARLATION	2,20,20
110001		TUNABLE MICROWAVE ABLATION	2/26/201
H-EB-00060	12/713515	PROBE TISSUE ABLATION SYSTEM WITH	
		INTERNAL AND EXTERNAL RADIATION	1
}	10/740044	SOURCES	2/26/20
H-US-01917	12/713641	SENSORS ON PATIENT SIDE FOR A	
	12/715212	MICROWAVE GENERATOR	3/1/20
H-US-01999	121110212	MICROWAVE ANTENNA PROBE	
		HAVING A DEPLOYABLE GROUND	0/0/00
H-US-01928	12/719657	1	3/8/20

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1-US-02418	12/731367	MICROWAVE SURFACE COAGULATOR WITH RETRACTABLE BLADE	3/25/2010
H-US-01915		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
	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-01900	12/786671	FLOW RATE VERIFICATION MONITOR FOR FLUID-COOLED MICROWAVE ABLATION PROBE	5/25/2010
H-US-01974	12/787639	SYSTEM AND METHOD FOR CHEMICALLY COOLING AN ABLATION ANTENNA	5/26/201
H-US-01925 H-US-01921	12/823211	MICROWAVE GROUND PLANE ANTENNA PROBE ADJUSTABLE TUNING OF A	6/25/201
H-US-01914	12/826897	DIELECTRICALLY LOADED LOOP ANTENNA MICROWAVE ANTENNA HAVING A	6/30/201
H-US-01930	12/826902	REACTIVELY-LOADED LOOP CONFIGURATION	6/30/201
H-US-02394	12/837820	DUAL ANTENNA ASSEMBLY WITH USER-CONTROLLED PHASE SHIFTING	7/16/20

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	Serial number	Title	Filing date
Sovidlen Bocket No.	1	MICROWAVE SPACERS AND METHOD	9/8/2010
US-02284	12/07/102	OF USE MICROWAVE SPACERS AND METHOD OF USE	10/22/2010
-US-02333 -EB-00062	12/010112	APPARATUS, SYSTEM AND METHOD FOR PERFORMING AN ELECTROSURGICAL PROCEDURE	11/12/2010
	1	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	12/23/201
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	1/5/20
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	1/5/20
H-EB-00155	12/985155	ENERGY-DELIVERY DEVICES WITH FLEXIBLE FLUID-COOLED SHAFT, INFLOW/OUTFLOW JUNCTIONS SUITABLE FOR USE IWTH SAME, AND	1/5/20

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1-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 H-EB-00053	13/020664 13/024041	DUAL ANTENNA MICROWAVE RESECTION AND ABLATION DEVICE, SYSTEM AND METHOD OF USE TISSUE DISSECTORS	2/3/2011 2/9/2011
H-EB-00085	13/029521	ENERY-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	3/9/201
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	3/9/201
H-EB-00036	13/050729	ENERGY-BASED ABLATION COMPLETION ALGORITHM	3/17/201
H-EB-00134	13/083185	MICROWAVE ABLATION INSTRUMENT WITH INTERCHANGEABLE ANTENNA PROBE	4/8/201

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Coyldian Docket No.	number	MICROWAVE TISSUE DISSECTION AND	
(Available of the control of the con	1	MICROWAVE TISSUE DISSESTIBILITY AND COAGULATION	4/8/2011
-EB-00129	13/083256	APAROSCOPIC PORT WITH	
LIO 04502 CID 2	13/104752	MICROWAVE RECTIFIER	5/10/2011
-US-01593 CIP 2	12/118029	MODIFIED WET TIP ANTENNA DESIGN	5/31/2011
-US-01791		MICROWAVE ANTENNA HAVING A COAXIAL CABLE WITH AN ADJUSTABLE OUTER CONDUCTOR CONFIGURATION	8/9/2011
1-US-01924	13/236997	HANDHELD MEDICAL DEVICES INCLUDING MICROWAVE AMPLIFIER UNIT AT DEVICE HANDLE	9/20/2011
H-EB-00189	13/237068	HANDHELD MEDICAL DEVICES INCLUDING MICROWAVE AMPLIFIER UNIT AT DEVICE HANDLE	9/20/2011
H-EB-00410 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	9/20/201
	13/267369	HIGH-STRENGTH MICROWAVE ANTENNA ASSEMBLIES	10/6/201
H-US-00496 CON 4	13/268054	COOLANT LINE CLIP ASSEMBLIES FOR USE WITH FLUID DELIVERY SYSTEMS	10/7/201
H-US-01219 CON		SLIDABLE CHOKE MICROWAVE ANTENNA	10/7/201
H-US-01189 DIV	13/268143		
705.12.701	13/281605	MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	10/26/20
H-US-00546 DIV		METHOD FOR CONSTRUCTING A	11/7/20
H-US-01792 DIV	13/290462	DIPOLE AITLENOX	

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Covidien Dacket No.	Serial number	3000	lling date
(GOMINEN DIGEREE CO.)		ABLATION SYSTEMS, PROBES, AND	
	1	METHODS FOR REDUCING RADIATION	]
		FROM AN ABLATION PROBE INTO THE	4/5/2012
-EB-00220	13/343788	ENVIRONMENT	1/5/2012
-LD-00220		ABLATION SYSTEMS, PROBES, AND	
	1	METHODS FOR REDUCING RADIATION	l
		FROM AN ABLATION PROBE INTO THE	1/5/2012
-EB-00429	13/343798	ENVIRONMENT	17072012
		SYSTEM AND METHOD FOR TREATING	l l
		TISSUE USING AN EXPANDABLE	1/6/2012
-EB-00253	13/344753	ANTENNA SYSTEM AND METHOD FOR TREATING	.,,,,,,,,,,
		TISSUE USING AN EXPANDABLE	
			1/6/2012
I-US-01916	13/344790	ANTENNA	
		COOLED DIELECTRICALLY BUFFERED	
	10/054463	MICROWAVE DIPOLE ANTENNA	1/17/2012
1-US-01649 DIV	13/351463	MICROWAVE ABLATION GENERATOR	
	10/440001	CONTROL SYSTEM	3/14/2012
1-EB-00125	13/419981	ELECTROSURGICAL SYSTEMS AND	
		PRINTED CIRCUIT BOARDS FOR USE	
	13/424127	THEREWITH	3/19/2012
H-US-00943 DIV	13/424121	MICROWAVE-SHIELDED TISSUE	
H-US-02277	13/430810	SENSOR PROBE	3/27/2012
H-U3-U2211		THE ATLANTICAL	
		ELECTROSURGICAL TISSUE ABLATION	
	1	SYSTEMS CAPABLE OF DETECTING	}
	1	EXCESSIVE BENDING OF A PROBE	4/5/201
H-EB-00286	13/440690	AND ALERTING A USER	1,0,20
		FLEXIBLE MICROWAVE CATHETERS	
		FOR NATURAL OR ARTIFICIAL LUMENS	4/9/201
H-IL-00075 (1)	13/442831	FOR NATURAL ON ARTH 1011 IZ ZONIZZ	
		CHOKED DIELECTRIC LOADED TIP	
	40444400	DIPOLE MICROWAVE ANTENNA	4/11/201
H-US-01179 CON	13/444496	LIMITED REUSE ABLATION NEEDLES	
	1	AND ABLATION DEVICES FOR USE	
	13/460398	THEREWITH	4/30/20
H-EB-00385	13/400390	LIMITED REUSE ABLATION NEEDLES	
		AND ABLATION DEVIES FOR USE	
H-EB-00384	13/460414	THEREWITH	4/30/20

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Covidien Docket No.		LIMITED REUSE ABLATION NEEDLES	
	1	AND ABLATION DEVICES FOR USE	
		THEREWITH	4/30/2012
-EB-00250	10/100110		
_	1	PERIPHERAL SWITCHING DEVICE FOR	5442042
20000	13/464021	MICROWAVE ENERGY PLATFORMS	5/4/2012
I-EB-00300	10/10/02/	ENERGY-DELIVERY SYSTEM AND	į
	1	METHOD FOR CONTROLLING BLOOD	5/22/2012
U ED 00405	13/477260	LOSS FROM WOUNDS	5/22/2012
-l-EB-00405 -l-EB-00362	13/477279	FIDUCIAL TRACKING SYSTEM	5/22/2012
H-EB-00361	13/477291	SURGICAL NAVIGATION SYSTEM	3/22/2012
H-EB-00301		TEMPERATURE BASED ABLATION	5/22/2012
H-EB-00121 CIP	13/477307	COMPLETENESS ALGORITHM	5/22/2012
H-EB-00290	13/477320	ELECTROSURGICAL ISTSRUMENT	3/22/2012
N-CB-00290	_	SYSTEMS AND METHODS FOR	5/22/2012
H-EB-00359	13/477374	PLANNING AND NAVIGATION	SIZZIZOTZ
H-EB-00333		PLANNING SYSTEM AND NAVIGATION	
	<u> </u>	SYSTEM FOR AN ABLATION	5/22/2012
H-EB-00364	13/477395	PROCEDURE	5/22/2012
H-EB-00360	13/477406	TREATMENT PLANNING SYSTEM	0.11.11
II-EB cooss		SURGICAL PLANNING SYSTEM AND	5/22/2012
H-EB-00363	13/477417	NAVIGATION SYSTEM	<u> </u>
Trus doos		REINFORCED HIGH STRENGTH	5/24/2012
H-US-00500 CON 3	13/479588	MICROWAVE ANTENNAS FOR	
		LEAKY-WAVE ANTENNAS FOR	5/30/2013
H-US-01285 CON	13/483858	MEDICAL APPLICATIONS  COMBINED FREQUENCY MICROWAVE	
		ABLATION SYSTEM, DEVICES AND	1
		ABLATION STSTEM, DEVICES 7 11 15	6/18/201
H-US-01037 DIV	13/525853	METHODS OF USE LEAKY-WAVE ANTENNAS FOR	
		MEDICAL APPLICATIONS	6/19/201
H-US-01687 CON	13/526676	MEDICAL AFFEIGATION	
		MICROWAVE ANTENNA ASSEMBLY	ł
		HAVING A DIELECTRIC BODY PORTION	1
	1	WITH RADIAL PARTITIONS OF	<u>l</u>
	13/539650		7/2/20
H-US-01239 CON	13/539650		
		ELECTROSURGICAL DEVICES WITH	0/0/00
	13/567624		8/6/20
H-US-01735 CON	15/50/524		
	1	TISSUE IMPEDANCE MEASUREMENT	8/7/20
H-US-01847 DIV	13/568679	TO A SACRED A DV EDECKLENCY	0///20

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Covidien Docket No.	number	1000	lling date
		MICROWAVE ABLATION GENERATOR	8/13/2012
-US-01110 CON	,0,00	CONTROL SYSTEM	8/28/2012
-US-01205 CON	13/596785	MICROWAVE ANTENNA	0.20.
		THERMALLY TUNED COAXIAL CABLE	
		FOR MICROWAVE ANTENNAS	8/29/2012
-US-01039 CON 2	13/598141	FOR MICROVAVE AITTERWAY	
		MICROWAVE DEVICE SPACER AND	
	20/260393	POSITIONER WITH ARCUATE SLOT	9/8/2010
-EB-00169	29/369382	ERGONOMIC HANDLE FOR ABLATION	
	29/414818	DEVICE	3/5/2012
I-EB-00106	2314 140 10	METHODS AND SYSTEMS FOR	
		ENHANCING ULTRASONIC VISIBILTY	
	l l	OF ENERGY-DELIVERY DEVICES	6/06/0040
H-EB-00407	61/664555	WITHIN TISSUE	6/26/2012
1-ED-00407		METHODS AND SYSTEMS FOR	
		ENHANCING ULTRASONIC VISIBILTY	
		OF ENERY-DELIVERY DEVICES WITHIN	6/26/2012
-I-EB-00408	61/664559	TISSUE	0/20/2012
		METHODS AND SYSTEMS FOR	
	1	ENHANCING ULTRASONIC VISIBILITY	
		OF ENERGY-DELIVERY DEVICES	6/26/2012
H-EB-00559	61/664577	WITHIN TISSUE ABLATION DEVICE HAVING AN	
		EXPANDABLE CHAMBER FOR	
		ANCHORING THE ABLATION DEVICE	
	04/004596	TO TISSUE	6/26/2012
H-EB-00444	61/664586	SYSTEMS AND METHODS FOR	
		MEASURING THE FREQUENCY OF	
		ISIGNALS GENERATED BY HIGH	
	61/666071	FREQUENCY MEDICAL DEVICES	6/29/201
H-EB-00230	01/000071		
		MICROWAVE ANTENNA PROBES AND	1
		METHODS OF MANUFACTURING	6/29/201
H-EB-00233	61/666089	MICROWAVE ANTENNA PROBES	6/29/201
H-EB-00233	61/666095	MICROWAVE ANTENNA PROBES	0/29/201
N-ED-00-11-1		ABLATION DEVICE WITH USER	
		INTERFACE AT DEVICE HANDLE,	1/13/201
	12/686726	SYSTEM INCLUDING SAME	
		COMBINED FREQUENCY MICROWAVE	
		ABLATION SYSTEM, DEVICES AND	10/3/200
(abandoned)	12/244850	METHODS OF USE	

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_		Title	Filing date
Covidien Docket No.	Serial number		
	PE	NDING PCT APPLICATIONS   FLEXIBLE MICROWAVE CATHETERS FOR	
		MATURAL OR ARTIFICIAL LUMENS	4/9/2012
H-IL-00075 (B)		ELEVIRIE MICROWAVE CATHETERS FOR	4/9/2012
H-IL-00075 (A)		NATURAL OR ARTIFICIAL LUMENS FLEXIBLE MICROWAVE CATHETERS FOR	4/9/2012
н-IL-00075 (C)			
	PCTUS12/032815	NATURAL OR ARTIFICIAL LUMENS	4/9/2012
H-IL-00075 (D)		MICROWAVE ANTENNA HAVING A	8/9/2012
H-US-01924	PCTUS12/050149	OUTER CONDUCTOR CONFIGURATION	

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ocket No S	ISSUE	D/ VALIDATED FOREIGN	PATENTS		
		AUSTRALIA			
	N	EVICES AND METHODS FOR COOLING MICROWAVE	7/13/2004	5/27/2010	2004260453
S-00497	2004260453 A	REINFORCED HIGH	111012001		
JS-00500	2006201855	STRENGTH MICROWAVE ANTENNA	5/3/2006	12/8/2011	2006201855
US-00546	2007219344	MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	9/27/2007	5/17/2012	200721934
US-00757		COOLED HELICAL ANTENNA FOR MICROWAVE ABLATION	4/23/2008	5/3/2012	200820178
-US-01081	2008249213	FLOATING CONNECTOR FOR MICROWAVE SURGICAL DEVICE	11/26/2008	3 2/16/2012	200824921
		EPO EVICE	<u> </u>	1	
I-EB-00169	126373	MICROWAVE DEVICE SPACER AND POSITIONER WITH ARCUATE SLOT DYNAMICALLY	3/7/201	1 3/7/2011	001263735-001
-1-US-00849 DI\	10161722	MATCHED MICROWAVE ANTENNA FOR TISSUE 3 ABLATION	11/14/200	08 9/12/201:	2 22084
H-US-01081		FLOATING CONNECTOR FOR MICROWAVE 4 SURGICAL DEVICE	11/27/20	08 5/23/201	2 2065
H-US-01181		DÉLIVERED ENERGY GENERATOR FOR MICROWAVE 91 ABLATION	9/30/20	09 8/8/201	12 2168
		MICROWAVE SYSTEM CALIBRATION APPARATUS AND 9.4 METHOD OF USE	9/30/20	009 8/29/20	12 2168
H-US-01678		FRANCE			

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Govidlen			Filing date	leene	Date Iss	ue number
Docket No.	Serial number	Title	Pilinaldara		(Andrews ) (Material	
-US-00497		DEVICES AND METHODS FOR COOLING MICROWAVE ANTENNAS	7/13/2004	10/3	1/2012	1659969
	7018821.4	MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	9/25/200	7 7/2	21/2010	1905375
I-US-00546		INTRACOOLED PERCUTANEOUS MICROWAVE ABLATION PROBE	3/3/200	9 71	13/2011	2098184
1-US-00819		DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSU	E 11/14/20	08 - 12	2/9/2010	2060239
H-US-00849		1 ABLATION DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISSU	JE 11/14/20	08 9	9/12/2012	2208477
H-US-00849 DI	V 10161722	.3 ABLATION SHIELDING FOR AN ISOLATION APPARATUS USED IN A MICROWAVE .77 GENERATOR			11/2/2011	2161055
H-US-01043 H-US-01081		FLOATING CONNECTOR FOR MICROWAVE 3 4 SURGICAL DEVICE	11/27/2	008	5/23/2012	2065985
H-US-01181	9012	DELIVERED ENERG' GENERATOR FOR MICROWAVE 391 ABLATION	9/30/2	2009	8/8/2012	216852
		MICROWAVE ANTENNA ASSEMB HAVING A DIELECT BODY PORTION WI RADIAL PARTITION OF DIELECTRIC	TH IS	/2009	5/2/2012	21588
H-US-01239		DUAL-BAND DIPOL MICROWAVE B73.9 ABLATION ANTENI	Ē	/2009	10/24/2012	21588
H-US-01630		MICROWAVE SYST 392.8 TUNER		/2009	2/22/2012	2 21685

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Covidien	757.5466.67570.866.77			Issue Date	lssue number
Docket No.	Serial number	Title	Filing date		
LESSEE FOR PROPERTY		MICROWAVE SYSTEM			
		CALIBRATION			
		APPARATUS AND		24204242	2168520
I-US-01678		METHOD OF USE	9/30/2009	8/29/2012	2100520
1-00-01010		APPADATUC			
		SYSTEM, APPARATUS AND METHOD FOR			
		DISSIPATING			
		STANDING WAVE IN A			
		MICROWAVE		0/00/0043	2168524
H-US-01679	9012400.9	DELIVERY SYSTEM	9/30/2009	3/28/2012	210002
100 5121		SENSORS ON PATIENT			
		SIDE FOR A MICROWAVE			
	44004690 6	GENERATOR	3/1/2011	9/19/2012	2363088
H-US-01999	11001003.0	GERMANY			
·				i	
		DEVICES AND			
	I	METHODS FOR	_	1	
	.==0.400	COOLING MICROWAVE	7/13/200	4 10/31/2013	1659969
H-US-00497	4//8192.	7 ANTENNAS MICROWAVE	1		
		ANTENNA ASSEMBLY			
		AND METHOD OF		7/04/004	1905375
H-US-00546	7018821	4 USING THE SAME	9/25/200	7/21/201	1500010
1100 000		INTRACOOLED			
		PERCUTANEOUS MICROWAVE		1	<b>\</b>
	0000000	.7 ABLATION PROBE	3/3/200	09 7/13/201	2098184
H-US-00819	9003029	DYNAMICALLY	-		
		MATCHED	1	l l	
1	ŀ	MICROWAVE		1	l l
	1	ANTENNA FOR TISSU	JE 11/14/20	08 12/9/20	206023
H-US-00849	8019920	0.1 ABLATION	11/14/20	12.0.23	
		DYNAMICALLY MATCHED	l l	1	
		MICROWAVE			
		ANTENNA FOR TISSU	JE		220847
H-US-00849	1016172	2.3 ABLATION	11/14/20	008 9/12/20	12 220047
H-03-00040		SHIELDING FOR AN	l l	Ì	
		ISOLATION	N. I		
		APPARATUS USED II A MICROWAVE	`		
	0160	377 GENERATOR	9/3/2	009 11/2/20	21610
H-US-01043	9109	FLOATING			
1	1	CONNECTOR FOR	·		1
	1	MICROWAVE	11/27/2	008 5/23/2	012 20659
H-US-01081	81700	73.4 SURGICAL DEVICE	1112112	000 0,20,2	

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Covidien		Title	Illing date	ssue Date	seue inumber
Docket No.	C	DÉLIVERED ENERGY BENERATOR FOR MICROWAVE ABLATION	9/30/2009	8/8/2012	2168521
H-US-01181					
		MICROWAVE ANTENNA ASSEMBLY HAVING A DIELECTRIC BODY PORTION WITH RADIAL PARTITIONS OF DIELECTRIC			2158869
H-US-01239	9010877	MATERIAL	8/25/2009	5/2/2012	2136009
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
		SYSTEM, APPARATUS AND METHOD FOR DISSIPATING STANDING WAVE IN A MICROWAVE	9/30/2009	3/28/2012	2168524
H-US-01679		9 DELIVERY SYSTEM SENSORS ON PATIENT SIDE FOR A MICROWAVE			2363088
H-US-01999	11001689.	6 GENERATOR  GREAT BRITA			
		DEVICES AND METHODS FOR COOLING MICROWAV	/E 7/13/200	04 10/31/2012	1659969
H-US-00497		ANTENNAS MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME			190537
H-US-00546 H-US-00819		INTRACOOLED PERCUTANEOUS MICROWAVE 9.7 ABLATION PROBE	3/3/20	09 7/13/201 <sup>-</sup>	1 209818

**PATENT** 

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		MATCHED			
		MICROWAVE		Ī	
		ANTENNA FOR TISSUE		40/0/2040	2060239
-US-00849	8019920.1	ABLATION	11/14/2008	12/9/2010	2000233
		DYNAMICALLY			l.
		MATCHED			
I		MICROWAVE ANTENNA FOR TISSUE		l	
	40404700.2		11/14/2008	9/12/2012	2208477
-US-00849 DIV	10161722.3	SHIELDING FOR AN			
		ISOLATION			
	l '	APPARATUS USED IN			
		A MICROWAVE		1	0.404055
-US-01043	9169377	GENERATOR	9/3/2009	11/2/2011	2161055
-05-01045	0.000	FLOATING			
		CONNECTOR FOR	1		
		MICROWAVE		5/23/2012	2065985
1-US-01081	8170073.4	SURGICAL DEVICE	11/27/2008	5/25/2012	200000
		DELIVERED ENERGY			
		GENERATOR FOR	l		
		MICROWAVE	9/30/2009	8/8/2012	2168521
1-US-01181	901239	1 ABLATION	3/00/200		
		MICROWAVE			
		ANTENNA ASSEMBLY	l l		
		HAVING A DIELECTRIC	:		
		BODY PORTION WITH	1		
		RADIAL PARTITIONS			
		OF DIELECTRIC		5/0/004	215886
H-US-01239	901087	7 MATERIAL	8/25/200	9 5/2/2013	2 213000
110001		DUAL-BAND DIPOLE	ł	Ì	
		MICROWAVE	8/25/200	9 10/24/201	215886
H-US-01630	9010873	.9 ABLATION ANTENNA MICROWAVE SYSTEM		10/2	
	2040000		9/30/200	09 2/22/201	2 216852
H-US-01677	9012392	.8 TUNER	-		
		MICROWAVE SYSTEM	n		
	1	CALIBRATION			
1		APPARATUS AND	1		04605
H-US-01678	9012389	.4 METHOD OF USE	9/30/20	09 8/29/201	21685
11-03-01073					
		SYSTEM, APPARATU	s	1	<b>\</b>
1		AND METHOD FOR	1	1	
		DISSIPATING	١		1
1		STANDING WAVE IN	^		
	204040	MICROWAVE 0.9 DELIVERY SYSTEM	9/30/20	009 3/28/20	12 21685
H-US-01679	901240	U.SIDELIVEIXI STOTEM			

Covidien	Serlal number	Title	ijing date	Issue Date	issue number
Docket No.	Senamonibs	ENSORS ON PATIENT			
	S	IDE FOR A	Ī		
i	l <sub>N</sub>	NICROWAVE		242/2242	2363088
04000	11001689.6	ENERATOR	3/1/2011	9/19/2012	2303000
-US-01999	11001000.5	IRELAND			
		- 4050 AND			1
j		DEVICES AND			
i i		METHODS FOR			1
į.		COOLING MICROWAVE	7/13/2004	10/31/2012	H-US-00497
I-US-00497		ANTENNAS	.,,		
		MICROWAVE			
		ANTENNA ASSEMBLY			
	<b>.</b> .	AND METHOD OF	9/25/2007	7/21/2010	H-US-00546
1-US-00546	7018821.4	USING THE SAME	V, V		
		INTRACOOLED	ı		1
		PERCUTANEOUS		1	
		MICROWAVE	3/3/2009	7/13/201	1 H-US-00819
H-US-00819	9003029.7	ABLATION PROBE	0.0.20		
		DYNAMICALLY		i	
		MATCHED	1		
		MICROWAVE			ł
		ANTENNA FOR TISSUE	11/14/200	8 12/9/201	0 H-US-00849
H-US-00849	8019920.1	ABLATION	1177111200	1	
		DYNAMICALLY	ŀ		
		MATCHED	l l		1
		MICROWAVE		ł	
		ANTENNA FOR TISSUE	11/14/200	8 9/12/20 <sup>-</sup>	12 H-US-00849 DI\
H-US-00849 DI	/ 10161722.3	ABLATION FOR AN	+	-	
		SHIELDING FOR AN	1		
	İ	ISOLATION		1	
		APPARATUS USED IN	1	1	
		A MICROWAVE	9/3/20	09 11/2/20	11 H-US-01043
H-US-01043	916937	7 GENERATOR	+ 3,5,50		
		FLOATING	1	1	
	1	CONNECTOR FOR		1	
1		MICROWAVE	11/27/20	08 5/23/20	)12 H-US-01081
H-US-01081	8170073	.4 SURGICAL DEVICE DELIVERED ENERGY		_	
		GENERATOR FOR	1	ı	ļ
1				1	1
1		MICROWAVE	9/30/20	009 8/8/2	012 H-US-01181
H-US-01181	90123	91 ABLATION	-	_	
	1	MICROWAVE	l l	1	1
1	1	ANTENNA ASSEMBLY	<i>(</i>	- {	{
1		HAVING A DIELECTR	IC	1	1
		BODY PORTION WITH	<b>-</b> ∤ }	1	
	}	RADIAL PARTITIONS			
1		OF DIELECTRIC	4		04011 110 04030
	90108	77 MATERIAL	8/25/2	009 5/2/2	2012 H-US-01239
H-US-01239	30100				

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Covidien	Serial number	Title	Filing date	lssue Date	issue number
ocket No.	Serielmanice	DUAL-BAND DIPOLE			
		MICROWAVE			1110 01630
	0010873.9	ABLATION ANTENNA	8/25/2009	10/24/2012	H-US-01630
JS-01630	9010070.0	SENSORS ON PATIENT			
		SIDE FOR A			l l
į		MICROWAVE		211212240	1110 01000
	11001689 6	GENERATOR	3/1/2011	9/19/2012	H-US-01999
US-01999	11001000.0	ITALY			
		MICROWAVE			
		ANTENNA ASSEMBLY	1	1	
		AND METHOD OF		7/04/0046	1905375
UO 00546	7018821.4	USING THE SAME	9/25/2007	7/21/2010	13000.0
US-00546		INTRACOOLED		}	
		PERCUTANEOUS	1	1	
l	·	MICROWAVE		7/42/201	2098184
UC 00010	9003029.7	ABLATION PROBE	3/3/200	9 7/13/201	2000101
-US-00819		DYNAMICALLY		1	
		MATCHED		ì	
		MICROWAVE	_1	1	
		ANTENNA FOR TISSU	E	12/9/201	2060239
I-US-00849	8019920.	1 ABLATION	11/14/200	12/9/20	2000
1-03-00049	-	DYNAMICALLY			
		MATCHED	1		
		MICROWAVE	1	I	
		ANTENNA FOR TISSU	JE	08 9/12/20	12 220847
4-US-00849 DI	/ 10161722	.3 ABLATION	11/14/20	37 12720	<u>``</u>
1-00 000 70 21		SHIELDING FOR AN	1	· ·	
		ISOLATION		1	
		APPARATUS USED I	<b>`</b>	i,	
	1	A MICROWAVE	9/3/20	09 11/2/20	216105
H-US-01043	91693	77 GENERATOR	3/3/20		
		FLOATING		1	
		CONNECTOR FOR	1	1	
		MICROWAVE	11/27/20	008 5/23/20	012 20659
H-US-01081	817007	3.4 SURGICAL DEVICE			
		DELIVERED ENERG	' }	1	
		GENERATOR FOR	l l	1	
		MICROWAVE	9/30/2	009 8/8/2	012 21685
H-US-01181	9012	391 ABLATION			
		MICBONANIE	1	1	Ţ
ł		MICROWAVE ANTENNA ASSEMB	LY	1	
1		HAVING A DIELECT	RIC	1	
		BODY PORTION W	тн		l l
	ļ	RADIAL PARTITION	ıs	1	1
1		OF DIELECTRIC	i		2012 2158
	9010	0877 MATERIAL	8/25/	2009 <i>5/2/</i>	2012 2158
H-US-01239	9010	JAPAI	N		

Covidien			Elling date	Issue Date	issue number
Docket No.	Serial number	THE SECOND SECON	Barto deservi	ahahadadadadan (Mi	Control of the Contro
		HIGH STRENGTH MICROWAVE		·	
		ANTENNA			į
		ASSEMBLIES AND		11010010	4437039
-US-00496	2003-541481	METHODS OF USE	10/29/2002	1/8/2010	4437039
-03-00430		MICROWAVE			
		ANTENNA HAVING A			
		CURVED CONFIGURATION	3/27/2003	11/20/2009	4409960
I-US-00498 (2)	2003-585613	LOCALIZATION	-		
		ELEMENT WITH		<u> </u>	
(00 /4)	2003-585561	ENERGIZED TIP	4/11/2003	11/27/2009	4414238
I-US-00498 (1)	2003-383301			1	
	ŀ	DEVICES AND		1	
		METHODS FOR	_	1	
		COOLING MICROWAVE	7/13/2004	11/19/2010	4630278
H-US-00497	2006-520296	ANTENNAS	1113/200		·
		REINFORCED HIGH	l		
		STRENGTH MICROWAVE		1	
	2006-128689	ANTENNA	5/2/200	6 6/29/2012	5027439
H-US-00500	2006-120009	MICROWAVE DEVICE			
		SPACER AND		1	
	1	POSITIONER WITH	0/0/201	1 12/2/2011	1430888
H-EB-00169	2011-5247	ARCUATE SLOT	3/8/201	121212011	<u>'                                    </u>
		SPAIN		T	T
	T	MICROWAVE	,	l l	
		ANTENNA ASSEMBLY AND METHOD OF	1		
	704000	1.4 USING THE SAME	9/25/200	7/21/201	0 190537
H-US-00546	701862	INTRACOOLED			
		PERCUTANEOUS	İ		
		MICROWAVE		09 7/13/201	209818
H-US-00819	900302	9.7 ABLATION PROBE	3/3/20	09 7/13/201	200010
11-00-00010		DYNAMICALLY			1
	1	MATCHED		1	
1		MICROWAVE ANTENNA FOR TISS	UE	Į.	
1	•		11/14/20	008 12/9/201	10 206023
	00400	ON ALARI ATION			
H-US-00849	80199	20.1 ABLATION  DYNAMICALLY			
H-US-00849	80199	DYNAMICALLY			
H-US-00849	80199	DYNAMICALLY MATCHED MICROWAVE			
H-US-00849		DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISS	SUE 44/44/04	nns 9/12/20	12 22084
		DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISS 722.3 ABLATION	11/14/2	008 9/12/20	12 22084
H-US-00849		DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISS 722.3 ABLATION SHIELDING FOR AN	11/14/2	008 9/12/20	12 22084
		DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISS 722.3 ABLATION SHIELDING FOR AN ISOLATION	11/14/20	008 9/12/20	12 22084
		DYNAMICALLY MATCHED MICROWAVE ANTENNA FOR TISS 722.3 ABLATION SHIELDING FOR AN	11/14/20		

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<u>   Poektuiked   1</u>		FLOATING CONNECTOR FOR MICROWAVE	44/07/0008	5/23/2012	2065985
H-US-01081		SURGICAL DEVICE DELIVERED ENERGY	11/27/2008		
H-US-01181	9012391	GENERATOR FOR	9/30/2009	8/8/2012	210002
H-US-01239	901087	MICROWAVE ANTENNA ASSEMBLY HAVING A DIELECTRIC BODY PORTION WITH RADIAL PARTITIONS OF DIELECTRIC MATERIAL	8/25/2009	9 5/2/2012	2 215886

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N. W. W. W. W. W. W. W. W. W. W. W. W. W.	PENDING F	OREIGN PATENT APPLICATIONS	
		AUSTRALIA	
	·	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
I-EB-00038	2012201440	ENERY-DELIVERY DEVICE INCLUDING	
1-EB-00085	2012200877	ULTRASOUND TRANSDUCER ARRAY AND PHASED ANTENNA ARRAY	2/15/2012
1-EB-00003		ENERGY-BASED ABLATION COMPLETION	3/19/2012
I-EB-00121	2012201624	ALGORITHM	3/19/2012
1-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
12	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-EB-00248 H-US-00497		DEVICES AND METHODS FOR COOLING	5/44/204
H-05-00497	2010201894	MICROWAVE ANTENNAS	5/11/201
H-US-00546 DIV		MICROWAVE ANTENNA ASSEMBLY AND METHOD OF USING THE SAME	9/27/200
H-US-00731		REFLECTIVE POWER MONITORING FOR MICROWAVE APPLICATIONS	6/20/200
H-US-00849	200824561	DYNAMICALLY MATCHED MICROWAVE 2 ANTENNA FOR TISSUE ABLATION	11/10/200
H-US-00896	200820284	5 BROADBAND MICROWAVE APPLICATOR	6/27/200
	200921205	FREQUENCY TUNING IN A MICROWAVE 3 ELECTROSURGICAL SYSTEM	9/8/200
H-US-00932	200821203	7 FLECTRICAL RECEPTACLE ASSEMBLY	8/28/200
H-US-00942		ELECTROSURGICAL SYSTEMS AND PRINTED CIRCUIT BOARDS FOR USE THEREWITH	7/28/20
H-US-00943 H-US-01038		RE-HYDRATION ANTENNA FOR 53 MICROWAVE ABLATION	3/31/20

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Covidlen		Title	Filing date
Docket No.	Serial number	SHIELDING FOR AN ISOLATION	
		APPARATUS USED IN A MICROWAVE	
	0000040061	CENERATOR	9/3/2009
-US-01043	2009212901	MICROWAVE ABLATION GENERATOR	
		CONTROL SYSTEM	9/30/2009
I-US-01110	2009222512	CHOKED DIELECTRIC LOADED TIP DIPOLE	
	0000000445	MICPOMAVE ANTENNA	1/22/2009
H-US-01179	2009200443	DELIVERED ENERGY GENERATOR FOR	
	000000500	MICROWAVE ABLATION	9/30/2009
1-US-01181			
	200222106	SLIDABLE CHOKE MICROWAVE ANTENNA	5/28/2009
H-US-01189	2009202100	MICROMAVE ANTENNA ASSEMBLE	
		LIAVING A DIFLECTRIC BODY PORTION	
		WITH RADIAL PARTITIONS OF DIELECTRIC	- 10 = 10 0 0 0
	2009212796	MATERIAL	8/25/2009
H-US-01239	2009212790	POWER-STAGE ANTENNA INTEGRATED	
	2010246238	DOVETEM	4/28/2010
H-US-01252	2010246230	LEAKY-WAVE ANTENNAS FOR MEDICAL	
	0040000640	ADDI ICATIONS	2/19/201
H-US-01285	2010200640	TISSUE ABLATION SYSTEM WITH PHASE-	
	22222222	5 CONTROLLED CHANNELS	7/29/200
H-US-01326	200920306	TMICEOWAVE ARIATION SYSTEM WITH	
		USER-CONTROLLED ABLATION SIZE AND	
	204000404	8 METHOD OF USE	4/1/201
H-US-01543	201020131	LAPAROSCOPIC PORT WITH MICROWAVE	
H-US-01593			5/10/201
CIP 2	201220275	8 RECTIFIER DUAL-BAND DIPOLE MICROWAVE	
		DUAL-BAND DII OLL MILLION ANTENNA	8/24/200
H-US-01630	200921276	66 ABLATION ANTENNA 52 MICROWAVE SHIELDING APPARATUS	9/3/200
H-US-01631	200921296	MICROWAVE SYSTEM CALIBRATION	
		APPARATUS, SYSTEM AND METHOD OF	
			9/30/20
H-US-01676	20092225	97 MICROWAVE SYSTEM TUNER	9/30/20
H-US-01677	20092224	MICROWAVE SYSTEM CALIBRATION	
		16 APPARATUS AND METHOD OF USE	9/30/20
H-US-01678	20092225	SYSTEM, APPARATUS AND METHOD FOR	₹
		DISSIPATING STANDING WAVE IN A	1
		DISSIPATING STANDING WAVE ENERGY	9/30/20
H-US-01679	20092225	INTERMITTENT MICROWAVE ENERGY	
		INTERMITTENT WHO TO THE TENT WHO TO THE TENT WEDV SYSTEM	9/30/20
H-US-01680	20092225	ANTENNA ASSEMBLIES FOR MEDICAL	
		ANTENNA AGGLINGELEG POPULATIONS	10/13/2
H-US-01714	2009225	331 APPLICATIONS	

Coxicien		Title	Filing date
Docket No.	Serial number	HIGH EFFICIENCY MICROWAVE	
	2010203036 A		7/16/2010
I-US-01722		LECTROSURGICAL DEVICES WITH	
I-US-01735	2010202190	DIRECTIONAL RADIATION PATTERN	5/28/2010
		ELECTROSURGICAL DEVICES HAVING	
	l tr	DIELECTRIC LOADED COAXIAL APERTURE	ł
	1	WITH DISTALLY POSITIONED RESONANT	
	<u> </u>	STRUCTURE AND METHOD OF	8/4/2010
H-US-01736	2010206116	MANUFACTURING SAME	8/4/2010
		DIRECTIVE WINDOW ABLATION ANTENNA	8/4/2010
H-US-01737		WITH DIELECTRIC LOADING	5/29/2012
1-US-01791	2012203168	MODIFIED WET TIP ANTENNA DESIGN	
		NARROW GAUGE HIGH STRENGTH CHOKED WET-TIP MICROWAVE ABLATION	
			5/26/2010
H-US-01851	2010202137	ANTENNA	
		SYSTEM AND METHOD FOR PERFORMING	
		AN ELECTROSURGICAL PROCEDURE	
		USING AN ABLATION DEVICE WITH AN	
	2011200329	INTEGRATED IMAGING DEVICE	1/27/2011
H-US-01919	2011200020	SELF-TUNING MICROWAVE ABLATION	0/47/0044
H-US-01923	2011200698	PROBE	2/17/2011
H-US-01923		MICROWAVE SURFACE COAGULATOR	3/25/2011
H-US-02418	2011201393	WITH RETRACTABLE BLADE	3/23/201
1100 02110		CANADA	T
		MICROWAVE TISSUE DISSECTION AND	4/10/201
H-EB-00129	2773417	COAGULATION	4/10/2011
		MICROWAVE ABLATION INSTRUMENT WITH INTERCHANGEABLE ANTENNA	
			4/10/201
H-EB-00134	277341	5 PROBE HANDHELD MEDICAL DEVICES INCLUDING	3
		MICROWAVE AMPLIFIER UNIT AT DEVICE	l l
		HANDI E	9/17/201
H-EB-00410		LAPAROSCOPIC PORT WITH MICROWAVE	
H-US-01593	277660	PECTIFIER	5/9/20
CIP 2 H-US-01791	277845	7 MODIFIED WET TIP ANTENNA DESIGN	5/29/201
H-09-01/91			
		SYSTEMS FOR THERMAL-FEEDBACK-	1
		CONTROLLED RATE OF FLUID FLOW TO	n l
		FLUID-COOLED ANTENNA ASSEMBLY AN	<b>-</b>
		METHODS OF DIRECTING ENERGY TO	3/9/20
H-EB-00038	27708	10 TISSUE USING SAME	

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Covidien	Serial number	Title	Filing date
Docket No.		NERY-DELIVERY DEVICE INCLUDING	
	li li	ILTRASOUND TRANSDUCER ARRAY AND	
== 0000E	2769158	PHASED ANTENNA ARRAY	2/15/2012
EB-00085	2700100F	NERGY-BASED ABLATION COMPLETION	
ED 00404		ALGORITHM	3/19/2012
-EB-00121			
	l l	ENERGY-DELIVERY DEVICE INCLUDING	
	l .	IL TRASOLIND TRANSDUCER ARRAY AND	
	l	PHASED ANTENNA ARRAY, AND METHODS	ŀ
	1	OF ADJUSTING AN ABLATION FIELD	2/15/2012
I-EB-00248	2768156	RADIATING INTO TISSUE USING SAME	21 13/2012
1-20-002-10		DEVICES AND METHODS FOR COOLING	7/13/2004
H-US-00497	2532979	MICROWAVE ANTENNAS	1113/2004
1-00-00 101		REINFORCED HIGH STRENGTH	4/20/2006
H-US-00500	2544328	MICROWAVE ANTENNA	4/20/2000
		MICROWAVE ANTENNA ASSEMBLY AND	9/25/2007
H-US-00546	2604318	METHOD OF USING THE SAME	9/20/2001
		REFLECTIVE POWER MONITORING FOR	6/19/2008
H-US-00731	2635389	MICROWAVE APPLICATIONS	0/15/2000
H-US-00757		COOLED HELICAL ANTENNA FOR	4/23/2008
	2629588	MICROWAVE ABLATION	7720720
		DYNAMICALLY MATCHED MICROWAVE	11/13/2008
H-US-00849	2643958	ANTENNA FOR TISSUE ABLATION	
		BROADBAND MICROWAVE APPLICATOR	6/26/200
H-US-00896	2636393	FREQUENCY TUNING IN A MICROWAVE	
		FREQUENCY TUNING IN A MICHOLINIA	9/5/200
H-US-00932	2639366	ELECTROSURGICAL SYSTEM  1 ELECTRICAL RECEPTACLE ASSEMBLY	9/3/200
H-US-00942	263936	ELECTROSURGICAL SYSTEMS AND	
		PRINTED CIRCUIT BOARDS FOR USE	
	20004		7/25/200
H-US-00943	263824	4 THEREWITH	
	000000	O RE-HYDRATION ANTENNA FOR ABLATION	3/30/200
H-US-01038	266093	SHIELDING FOR AN ISOLATION	
		APPARATUS USED IN A MICROWAVE	
	007020	FARTOR SEPTEMBER OF THE PROPERTY OF THE PROPER	9/3/200
H-US-01043	26/828	FLOATING CONNECTOR FOR MICROWAV	E
	264460	OZ SURGICAL DEVICE	11/25/20
H-US-01081	204408	MICROWAVE ABLATION GENERATOR	
	26812	EF CONTROL SYSTEM	9/30/20
H-US-01110	20012	CHOKED DIELECTRIC LOADED TIP DIPOL	Ε
1		76 MICROWAVE ANTENNA	1/22/20

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			and a contract of the contract
Coviden	Serial number	Title	Filing date
Docket No.		DELIVERED ENERGY GENERATOR FOR	
04484	2680986	MICROWAVE ABLATION	9/30/2009
-US-01181			
-US-01189	2666899	SLIDABLE CHOKE MICROWAVE ANTENNA	5/27/2009
-03-01100		MICROWAVE ANTENNA ASSEMBLY	
	l l	HAVING A DIELECTRIC BODY PORTION	
		WITH RADIAL PARTITIONS OF DIELECTRIC	8/24/2009
I-US-01239	2676520	MATERIAL INTEGRATED	0/2-4/2000
		POWER-STAGE ANTENNA INTEGRATED	4/28/2010
I-US-01252	2761199	LEAKY-WAVE ANTENNAS FOR MEDICAL	
			2/19/2010
I-US-01285	2693744	APPLICATIONS TISSUE ABLATION SYSTEM WITH PHASE-	
	0674069	CONTROLLED CHANNELS	7/28/2009
1-US-01326	20/4000	MICROWAVE ABLATION SYSTEM WITH	
		USER-CONTROLLED ABLATION SIZE AND	
04543		METHOD OF USE	4/1/2010
H-US-01543	2000002	DUAL-BAND DIPOLE MICROWAVE	
H-US-01630	2676522	ABI ATION ANTENNA	8/24/2009
H-US-01631	2677560	MICROWAVE SHIELDING APPARATUS	9/3/200
H-03-01031		MICROWAVE SYSTEM CALIBRATION	
		APPARATUS, SYSTEM AND METHOD OF	0/00/200
H-US-01676	2680940	USE	9/29/200 9/29/200
H-US-01677	2680939	MICROWAVE SYSTEM TUNER	9/29/200
		MICROWAVE SYSTEM CALIBRATION	9/30/200
H-US-01678	2681215	APPARATUS AND METHOD OF USE	9/30/200
		SYSTEM, APPARATUS AND METHOD FOR	İ
		DISSIPATING STANDING WAVE IN A	9/29/200
H-US-01679	268093	MICROWAVE DELIVERY SYSTEM INTERMITTENT MICROWAVE ENERGY	
	200000	6 DELIVERY SYSTEM	9/29/200
H-US-01680	268093	ANTENNA ASSEMBLIES FOR MEDICAL	
	269242	5 APPLICATIONS	10/13/20
H-US-01714	200243	HIGH EFFICIENCY MICROWAVE	
1110 04700	271004	8 AMPLIFIER	7/16/20
H-US-01722		FLECTROSURGICAL DEVICES WITH	
H-US-01735	270619	4 DIRECTIONAL RADIATION PATTERN	5/31/20
n-03-01/33			1
		ELECTROSURGICAL DEVICES HAVING	اء
1		DIELECTRIC LOADED COAXIAL APERTUR	-
1		WITH DISTALLY POSITIONED RESONANT	1
		STRUCTURE AND METHOD OF	8/4/20
H-US-01736	271214	40 MANUFACTURING SAME	

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Docket No.	Salianiumber	DIRECTIVE WINDOW ABLATION ANTENNA	
110 04727		WITH DIELECTRIC LOADING	8/4/2010
-US-01737	2/1102.	NARROW GAUGE HIGH STRENGTH	
		CHOKED WET-TIP MICROWAVE ABLATION	
-US-01851		ANTENNA	5/26/2010
-80-01001			
		SYSTEM AND METHOD FOR PERFORMING	
		AN ELECTROSURGICAL PROCEDURE	
		USING AN ABLATION DEVICE WITH AN	4 107 1004 4
I-US-01919	2729363	INTEGRATED IMAGING DEVICE	1/27/2011
		SELF-TUNING MICROWAVE ABLATION	010010044
I-US-01923	2732378	PROBE	2/22/2011
		MICROWAVE SURFACE COAGULATOR	0/04/0044
I-US-02418	2735072	WITH RETRACTABLE BLADE	3/24/2011
		CHINA	
1-US-01593		LAPAROSCOPIC PORT WITH MICROWAVE	E14010041
CIP2	201210205270.7	RECTIFIER	5/10/2012
1-US-01791	201210319428.3	MODIFIED WET TIP ANTENNA DESIGN	5/31/2012
1000.00		MICROWAVE TISSUE DISSECTION AND	4/0/004
-I-EB-00129	201210157143.4	COAGULATION	4/9/201
1-60-00-120		MICROWAVE ABLATION INSTRUMENT	
		WITH INTERCHANGEABLE ANTENNA	
H-EB-00134	201210169145.5	PROBE	4/9/201
11-20-0010-1		HANDHELD MEDICAL DEVICES INCLUDING	
		MICROWAVE AMPLIFIER UNIT AT DEVICE	
H-EB-00410	201210353225.6	HANDLE	9/20/201
11-20-00-110	<u> </u>	HANDHELD MEDICAL DEVICES INCLUDING	
		MICROWAVE AMPLIFIER UNIT AT DEVICE	0.100.100.4
H-EB-00413	201210353415.8	HANDLE	9/20/201
11-25 00 110		CHOKED DIELECTRIC LOADED TIP DIPOLE	4 100 100 1
H-US-01179	200980103070.	7 MICROWAVE ANTENNA	1/22/200
11 00 01110		EPO	
H-EB-00413	12185192.	7 HANDHELD MEDICAL DEVICES INCLUDING	MICROWAVE
H-US-01081		FLOATING CONNECTOR FOR MICROWAVE	<b>:</b>
DIV	12168858.	4 SURGICAL DEVICE	11/27/200
DIV		HANDHELD MEDICAL DEVICES INCLUDING	
Į		MICROWAVE AMPLIFIER UNIT AT DEVICE	047/00
H-EB-00410	12006524.	8 HANDLE	9/17/20
H-US-01593		LAPAROSCOPIC PORT WITH MICROWAVE	E140/00
CIP2	12003728	8 RECTIFIER	5/10/20
H-US-01791	12004169	4 MODIFIED WET TIP ANTENNA DESIGN	5/30/20
H-US-00497		DEVICES AND METHODS FOR COOLING	7/40/00
11 1 00 00 00 00	1	.7 MICROWAVE ANTENNAS	7/13/20

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Goyldlen	Serial number	Title	Filing date
Docket No.	Septantinumber	IICROWAVE ANTENNA HAVING A	
00400 (2)	3721482 2	URVED CONFIGURATION	3/27/2003
-US-00498 (2)	0721102.2	OCALIZATION ELEMENT WITH	
110 00409 (4)	3736458.5 E	NERGIZED TIP	4/11/2003
-US-00498 (1)		IICROWAVE ANTENNA HAVING A	
-US-00498	10185413.10	CURVED CONFIGURATION	3/27/2003
IV 2	1	REINFORCED HIGH STRENGTH	-1010000
I-US-00500	6000435 6	AICROWAVE ANTENNA	5/8/2006
-03-00000		REFLECTIVE POWER MONITORING FOR	- 100 10000
I-US-00731	8011282 4	MICROWAVE APPLICATIONS	6/20/2008
1-03-00731		COOLED HELICAL ANTENNA FOR	4545000
1-US-00757	2007924.7	MICROWAVE ABLATION	4/24/2008
1-03-00707		ARTICULATING ABLATION DEVICE AND	4 (00 (0000
H-US-00817	9151736.7	METHOD	1/30/2009
1-US-00819	+	INTRACOOLED PERCUTANEOUS	0 (0 (0 0 0 0 0
1-03-00019 DIV	11164913 3	MICROWAVE ABLATION PROBE	3/3/2009
1-US-00849		DYNAMICALLY MATCHED MICROWAVE	
7-03-00049 DIV2	11185926	ANTENNA FOR TISSUE ABLATION	11/14/2008
DIVZ			0.007.00000
H-US-00896	8011705.4	BROADBAND MICROWAVE APPLICATOR	6/27/2008
H-03-00090		FREQUENCY TUNING IN A MICROVAVE	0101000
H-US-00932	8015842.1	FLECTROSURGICAL SYSTEM	9/9/2008
H-US-00932	8015204.4	FLECTRICAL RECEPTACLE ASSEMBLY	8/28/2008
n-U3-009-72		FLECTROSURGICAL SYSTEMS AND	
		PRINTED CIRCUIT BOARDS FOR USE	= (0.0 (0.00)
H-US-00943	8013605.4	THEREWITH	7/29/200
H-03-00940		FLECTROSURGICAL SYSTEMS AND	
H-US-00943		PRINTED CIRCUIT BOARDS FOR USE	-1001000
DIV	11185031.9	THEREWITH	7/29/200
DIV		COMBINED FREQUENCY MICROWAVE	·
		ABLATION SYSTEM, DEVICES AND	40/5/200
H-US-01037	9172188.0	METHODS OF USE	10/5/200
11-00-0100.		THERMALLY TUNED COAXIAL CABLE FOR	4/00/000
H-US-01039	9000981.	2 MICROWAVE ANTENNAS	1/23/200
11-00-01000		SYSTEM AND METHOD FOR FIELD	44/00/200
H-US-01109	8169973.	8 ABLATION PREDICTION	11/26/200
11-00-01100		MICROWAVE ABLATION GENERATOR	0/20/20/
H-US-01110	9012388.	6 CONTROL SYSTEM	9/30/20
H-US-01189		1 SLIDABLE CHOKE MICROWAVE ANTENNA	5/29/20

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<b>Coylilen</b>		<b>€</b> 030	Filing date
Docket No:	Serial number	Title	11119 (441)
		MICROWAVE ANTENNA ASSEMBLY HAVING A DIELECTRIC BODY PORTION	
		WITH RADIAL PARTITIONS OF DIELECTRIC	
I-US-01239	12165136.8		8/25/2009
)IV	12100100.0	TISSUE ABLATION SYSTEM WITH PHASE-	
1-US-01326	9166708.9	CONTROLLED CHANNELS	7/29/2009
1-03-01320	<del> </del>	MICROWAVE ABLATION SYSTEM WITH	ļ
		USER-CONTROLLED ABLATION SIZE AND	4/4/2010
1-US-01543	10158944.8	METHOD OF USE	4/1/2010
		CHOKED DIELECTRIC LOADED TIP DIPOLE	10/16/2009
H-US-01583	9173268.5	MICROWAVE ANTENNA	9/3/2009
H-US-01631	9169376.2	MICROWAVE SHIELDING APPARATUS INTERMITTENT MICROWAVE ENERGY	3/3/2000
		INTERMITIENT MICKOVAVE LIVERO	9/30/2009
H-US-01680	9012396.9	DELIVERY SYSTEM ANTENNA ASSEMBLIES FOR MEDICAL	
	0473939.6	APPLICATIONS	10/13/2009
H-US-01714	9172030.0	TISSUE IMPEDANCE MEASUREMENT	
	10163235.4	USING A SECONDARY FREQUENCY	5/19/2010
H-US-01847	10100200.4		
H-US-00496		HIGH STRENGTH MICROWAVE ANTENNA	
DIV 2	10004950.1	ASSEMBLIES AND METHODS OF USE	10/29/2002
H-US-00496		HIGH STRENGTH MICROWAVE ANTENNA	10/29/2002
DIV	10004951.9	ASSEMBLIES AND METHODS OF USE	10/29/2002
		HIGH STRENGTH MICROWAVE ANTENNA	
}		ASSEMBLIES AND METHODS OF USE	10/29/2002
H-US-00496	2786604.	ASSEMBLIES AND METHODO OF SEE	10,20,20
		SYSTEMS FOR THERMAL-FEEDBACK-	
		CONTROLLED RATE OF FLUID FLOW TO	
1		FLUID-COOLED ANTENNA ASSEMBLY AND	
		METHODS OF DIRECTING ENERGY TO	1
H-EB-00038	12001643.	1 TISSUE USING SAME	3/9/2013
11-28 0000		ENERGY-DELIVERY DEVICES WITH	
1		FLEXIBLE FLUID-COOLED SHAFT,	. 1
1	1	INFLOW/OUTFLOW JUNCTIONS SUITABLE	· [
		FOR USE IWTH SAME, AND SYSTEMS	12/23/201
H-EB-00045	11010175	5 INCLUDING SAME	1/19/201
H-EB-00053	12000336	3 TISSUE DISSECTORS APPARATUS, SYSTEM AND METHOD FOR	
		PERFORMING AN ELECTROSURGICAL	1
	11000036	2 PROCEDURE	11/14/201
H-EB-00062	11003030		

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Covidien	Serial number	Title	Filing date
Docket No.		NERY-DELIVERY DEVICE INCLUDING JILTRASOUND TRANSDUCER ARRAY AND PHASED ANTENNA ARRAY	2/15/2012
H-EB-00085		ENERGY-BASED ABLATION COMPLETION ALGORITHM	3/19/2012
H-EB-00121		MICROWAVE TISSUE DISSECTION AND COAGULATION	4/10/2012
H-EB-00129		MICROWAVE ABLATION INSTRUMENT WITH INTERCHANGEABLE ANTENNA	4/10/2012
H-EB-00134		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-00154		ENERGY-DELIVERY DEVICES WITH FLEXIBLE FLUID-COOLED SHAFT, INFLOW/OUTFLOW JUNCTIONS SUITABLE FOR USE WITH SAME, AND SYSTEMS	12/23/2011
H-EB-00155		INCLUDING SAME 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-00156		MICROWAVE FIELD-DETECTING NEEDLE ASSEMBLIES, METHODS OF MANUFACTURING SAME, METHODS OF ADJUSTING AN ABLATION FIELD RADIATING INTO TISSUE USING SAME, 5 AND SYSTEMS INCLUDING SAME	12/20/2011
H-EB-00227		ENERGY-DELIVERY DEVICE INCLUDING ULTRASOUND TRANSDUCER ARRAY AND PHASED ANTENNA ARRAY, AND METHODS OF ADJUSTING AN ABLATION FIELD	5
H-EB-00248		.7 RADIATING INTO TISSUE USING SAME CHOKED DIELECTRIC LOADED TIP DIPOL	2/15/2012 E
H-US-01179	9704429	.1 MICROWAVE ANTENNA POWER-STAGE ANTENNA INTEGRATED	(123/2010
H-US-01252		56 SYSTEM LEAKY-WAVE ANTENNAS FOR MEDICAL	4/28/2010
H-US-01285	10001767	7.2 APPLICATIONS	2/22/2010

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Coydlen		Title	Filing date
Docket No.	Serial number	MICROWAVE ABLATION ANTENNA	
	400006273.4	RADIATION DETECTOR	6/18/2010
-US-01593	100000373.4	HIGH EFFICIENCY MICROWAVE	
	10007300 8	AMPLIFIER	7/16/2010
I-US-01722		MICROWAVE ABLATION WITH TISSUE	
I-US-01723	10008850.9	TEMPERATURE MONITORING	8/25/2010
1-05-01725		ELECTROSURGICAL DEVICES WITH	E 107 120 10
I-US-01735	10005533.4	DIRECTIONAL RADIATION PATTERN	5/27/2010
1-00-01100			
		ELECTROSURGICAL DEVICES HAVING	
		DIELECTRIC LOADED COAXIAL APERTURE	
		WITH DISTALLY POSITIONED RESONANT	
		STRUCTURE AND METHOD OF	8/4/2010
H-US-01736	10008139.7	MANUFACTURING SAME	0/4/2010
11-00-017-00		DIRECTIVE WINDOW ABLATION ANTENNA	8/4/2010
H-US-01737	10008140.5	WITH DIELECTRIC LOADING	0/4/2010
11-00-017-01	<del>                                     </del>	SURFACE ABLATION ANTENNA WITH	0/46/004/
H-US-01738	10008533.	1 DIELECTRIC LOADING	8/16/2010
11-00 01100		THE STATE OF	
		ELECTROSURGICAL DEVICES WITH	2/4/201
H-US-01789	11000913.	1 CHOKE SHORTED TO BIOLOGICAL TISSUE	2141201
11-00 01.00		METHOD FOR CONSTRUCTING A DIPOLE	9/9/201
H-US-01792	10009392.	1 ANTENNA	9191201
11-00-01702	_	MATERIAL FUSING APPARATUS, SYSTEM	0/20/201
H-US-01794	1011750.	6 AND METHOD OF USE	9/29/201
11-00-01701		IDUAL ANTENNA MICROWAVE RESECTION	
		AND ABLATION DEVICE, SYSTEM AND	1/19/201
H-US-01795	12000335	.5 METHOD OF USE	1/19/20
11-00-011-00		TELECTROSURGICAL DEVICES,	l
		DIRECTIONAL REFLECTOR ASSEMBLIES	1
	<b>,</b>	COUPLEABLE THERETO, AND	.]
		ELECTROSURGICAL SYSTEMS INCLUDING	9/27/20
H-US-01798	100109	42 SAME	11/16/20
H-US-01844	10014675	5.2 TWIN SEALING CHAMBER HUB	11/10/20
11 00 0.0		MICROWAVE SURFACE ABLATION USING	9/27/20
H-US-01850	10010943	3.8 CONICAL PROBE	3121120
11-00-01000		NARROW GAUGE HIGH STRENGTH	, {
	1	CHOKED WET TIP MICROWAVE ABLATION	5/27/20
H-US-01851	1 4000553	4.2 ANTENNA	3/2/1/20

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Coxidien	Serial number	Title	Filing date
Docket No.		ELECTROMAGNETIC ENERGY DELIVERY	
		DEVICES INCLUDING AN ENERGY	
		APPLICATOR ARRAY AND	İ
		ELECTROSURGICAL SYSTEMS INCLUDING	11/17/2010
-US-01866	10014705.7	SAME ELECTROSURGICAL DEVICES WITH	
		BALUN STRUCTURE FOR AIR EXPOSURE	·
at .		OF ANTENNA RADIATING SECTION AND	
		METHOD OF DIRECTING ENERGY TO	
	11003822 1	TISSUF USING SAME	5/10/2011
I-US-01900	11000022.	ISVSTEM AND METHOD FOR CHECKING	
		HIGH POWER MICROWAVE ABLATION	0/46/2010
I-US-01901	10009732.8	SYSTEM STATUS ON STARTUP	9/16/2010
		ABLATION DEVICES WITH ADJUSTABLE	
		RADIATING SECTION LENGTHS,	
		ELECTROSURGICAL SYSTEMS INCLUDING	
		SAME, AND METHODS OF ADJUSTING	3/24/2011
H-US-01915	11002477.	5 ABLATION FIELDS USING SAME	
		SYSTEM AND METHOD FOR PERFORMING	
		AN ELECTROSURGICAL PROCEDURE	
	1	USING AN ABLATION DEVICE WITH AN	
H-US-01919	11000669	OINTEGRATED IMAGING DEVICE	1/27/201
H-US-01919		MICROWAVE GROUND PLANE ANTENNA	0/46/201
H-US-01921	11004942	6 PROBE	6/16/201
11-00-01021		SELF-TUNING MICROWAVE ABLATION	2/14/201
H-US-01923	11001181	.4 PROBE	2/14/201
		MICROWAVE ANTENNA PROBE HAVING A	3/7/201
H-US-01928	11001872	.8 DEPLOYABLE GROUND PLANE	0,7,20
		ABLATION DEVICE WITH USER INTERFACE AT DEVICE HANDLE,	1
		SYSTEMS INCLUDING SAME, AND	1
		METHOD OF ABLATING TISSUE USING	
	44000201	3.7 SAME	1/12/201
H-US-01994	1100020	SYSTEM AND METHOD FOR MONITORING	
	1100054	S ARI ATION SIZE	1/24/20
H-US-02103	110003-4	SYSTEM AND METHOD FOR MONITORING	3
H-US-02105	1001408	O E ARI ATION SIZE	10/26/20
N-03-02103		SYSTEM AND METHOD FOR MONITORING	10/27/20
H-US-02106	1001404	2 SARI ATION SIZE	10/2/120
11.00.02.30		SYSTEM AND METHOD FOR MONITORING	2/25/20
H-US-02107	1100159	6.3 ABLATION SIZE	2,20,20

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Packeums	IS	YSTEM AND METHOD FOR MONITORING	10/28/2010
1-US-02108	10014081.3 A	BLATION SIZE	10/20/2010
	S	SYSTEM AND METHOD FOR ABLATION	
		PROCEDURE MONITORING USING	1/19/2012
1-US-02206	12000334.8	LECTRODES MICROWAVE SPACERS AND METHOD OF	
			10/24/2011
1-US-02333	11008506.5	ABLATION DEVICES WITH DUAL	
	i Y	OPERATING FREQUENCIES, SYSTEMS	ì
	1	NCLUDING SAME, AND METHODS OF	1
	]	ADUSTING ABLATION VOLUME USING	
		1	2/14/2011
H-US-02393	11001182.2	DUAL ANTENNA ASSEMBLY WITH USER-	
	44005007.0	CONTROLLED PHASE SHIFTING	7/15/2011
H-US-02394	11005827.8	MICROWAVE SURFACE COAGULATOR	
		WITH RETRACTABLE BLADE	3/24/2011
H-US-02418	11002476.7	MICROWAVE FIELD-DETECTING NEEDLE	
		MICROVAVE FIELD-DETECTING NEEDS-E	
		ASSEMBLIES, METHODS OF MANUFACTURING SAME, METHODS OF	
		ADJUSTING AN ABLATION FIELD	
	,	RADIATING INTO TISSUE USING SAME,	
	11010010	AND SYSTEMS INCLUDING SAME	12/21/2011
H-US-02455	11010046.8	FRANCE	
		COOLED HELICAL ANTENNA FOR	
	20070047	MICROWAVE ABLATION	4/24/2008
H-US-00757	8007924.7	ARTICULATING ABLATION DEVICE AND	
	24547007		1/30/2009
H-US-00817	9151/36./	METHOD	
	2044705	BROADBAND MICROWAVE APPLICATOR	6/27/2008
H-US-00896	8011705.4	ELECTROSURGICAL SYSTEMS AND	
		PRINTED CIRCUIT BOARDS FOR USE	1
1	2040005		7/29/2008
H-US-00943	8013605.4	4 THEREWITH	
		HIGH STRENGTH MICROWAVE ANTENNA	
H-US-00496	10004050	1 ASSEMBLIES AND METHODS OF USE	10/29/2002
DIV 2	10004950.	TASSEIVIBLIES AND METHODS	
		ELECTROSURGICAL DEVICES WITH	
1	44000040	1 CHOKE SHORTED TO BIOLOGICAL TISSUE	2/4/201
H-US-01789	11000913.	METHOD FOR CONSTRUCTING A DIPOLE	
	4000000	1 ANTENNA	9/9/201
H-US-01792	10009392.	MATERIAL FUSING APPARATUS, SYSTEM	
	4044750	.6 AND METHOD OF USE	9/29/201
H-US-01794	1011750	ONIND MICHIOS OF COL	

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Covidien	Serial number	Title	Filing date
Docket No.	Sereminates i	MICROWAVE SURFACE ABLATION USING	
110 04850	40040043 8	CONICAL PROBE	9/27/2010
-US-01850		SYSTEM AND METHOD FOR MONITORING	10/28/2010
I-US-02105	10014080.5	ABLATION SIZE	10/26/2010
		GERMANY	
		COOLED HELICAL ANTENNA FOR	4/24/2008
1-US-00757	8007924.7	MICROWAVE ABLATION ARTICULATING ABLATION DEVICE AND	
			1/30/2009
1-US-00817	9151736.7		
	8011705.4	BROADBAND MICROWAVE APPLICATOR	6/27/2008
H-US-00896	001170011	FLECTROSURGICAL SYSTEMS AND	
		PRINTED CIRCUIT BOARDS FOR USE	7/29/2008
H-US-00943	8013605.4	THEREWITH	112912000
11-00-000 10		THE THE POWER OF ANTENNA	
H-US-00496		HIGH STRENGTH MICROWAVE ANTENNA	10/29/2002
DIV 2	10004950.1	ASSEMBLIES AND METHODS OF USE	
		ELECTROSURGICAL DEVICES WITH	
		CHOKE SHORTED TO BIOLOGICAL TISSUE	2/4/201
H-US-01789	11000913.	METHOD FOR CONSTRUCTING A DIPOLE	1
	40000303	ANTENNA	9/9/201
H-US-01792	10009392.	MATERIAL FUSING APPARATUS, SYSTEM	
	1011750	AND METHOD OF USE	9/29/201
H-US-01794	1011700.	MICROWAVE SURFACE ABLATION USING	0/07/004
1110 01050	10010943.	OCONICAL PROBE	9/27/201
H-US-01850		SYSTEM AND METHOD FOR MONITORING	10/28/201
H-US-02105	10014080	.5 ABLATION SIZE	10/20/20
11-00-02 100		GREAT BRITAIN	7
		COOLED HELICAL ANTENNA FOR	4/24/200
H-US-00757	8007924	.7 MICROWAVE ABLATION ARTICULATING ABLATION DEVICE AND	
			1/30/20
H-US-00817		5.7 METHOD	
	0044709	5.4 BROADBAND MICROWAVE APPLICATOR	6/27/20
H-US-00896	8011708	FLECTROSURGICAL SYSTEMS AND	
		PRINTED CIRCUIT BOARDS FOR USE	
	801360	5.4 THEREWITH	7/29/20
H-US-00943			: 1
·	1	HIGH STRENGTH MICROWAVE ANTENNA	10/29/20
1	1000405	0.1 ASSEMBLIES AND METHODS OF USE	10/20/20

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Coyldien Docket No.	Serial number	Title	Filing date
	44000013 1	ELECTROSURGICAL DEVICES WITH CHOKE SHORTED TO BIOLOGICAL TISSUE	2/4/2011
US-01789	40000303.1	METHOD FOR CONSTRUCTING A DIPOLE	9/9/2010
-US-01792	10117506	MATERIAL FUSING APPARATUS, SYSTEM AND METHOD OF USE	9/29/2010
-US-01794		MICROWAVE SURFACE ABLATION USING CONICAL PROBE	9/27/2010
-US-01850		SYSTEM AND METHOD FOR MONITORING	10/28/2010
-US-02105	10014080.5	ABLATION SIZE  IRELAND	
		COOLED HELICAL ANTENNA FOR	
I-US-00757	8007924.7	MICROWAVE ABLATION	4/24/2008
		ARTICULATING ABLATION DEVICE AND METHOD	1/30/2009
1-US-00817		BROADBAND MICROWAVE APPLICATOR	6/27/2008
H-US-00896		ELECTROSURGICAL SYSTEMS AND PRINTED CIRCUIT BOARDS FOR USE 4 THEREWITH	7/29/2008
H-US-00496	10004950	HIGH STRENGTH MICROWAVE ANTENNA 1 ASSEMBLIES AND METHODS OF USE	10/29/2002
DIV 2		METHOD FOR CONSTRUCTING A DIPOLE	9/9/2010
H-US-01792	<del> </del>	MATERIAL FUSING APPARATUS, SYSTEM	9/29/201
H-US-01794		MICROWAVE SURFACE ABLATION USING	9/27/201
H-US-01850		SYSTEM AND METHOD FOR MONITORING .5 ABLATION SIZE	10/28/201
H-US-02105	10014000	ITALY	
	9007924	COOLED HELICAL ANTENNA FOR	4/24/200
H-US-00757		ARTICULATING ABLATION DEVICE AND 3.7 METHOD	1/30/200
H-US-00817		ELECTROSURGICAL SYSTEMS AND PRINTED CIRCUIT BOARDS FOR USE 5.4 THEREWITH	7/29/200
H-US-00943	001300	IAPAN	
H-US-02105	2010-241818	SYSTEM AND METHOD FOR MONITORING ABLATION SIZE	G 10/28/20

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Docket No.		SYSTEM AND METHOD FOR MONITORING	10/00/0040
110 00400	2010-241881	ARI ATION SIZE	10/28/2010
-US-02108	2010-241001	MICROWAVE ANTENNA ASSEMBLY AND	0/00/0007
-US-00546	2012-256540	METHOD OF USING THE SAME	9/28/2007
IV	2012 2000 10	ARTICULATING ABLATION DEVICE AND	4 (20) (2000
	2009-20696	METHOD	1/30/2009
I-US-00817	2000-2000	EREQUENCY TUNING IN A MICROWAVE	9/12/2008
. HC 00033	2008-235231	ELECTROSURGICAL SYSTEM	9/12/2000
I-US-00932	2000 20020 1	THERMALLY TUNED COAXIAL CABLE FOR	4/22/2000
	2009-12392	MICROWAVE ANTENNAS	1/22/2009
H-US-01039	2003 12002	CHOKED DIELECTRIC LOADED TIP DIPOLE	40440/0000
04503	2009-239894	MICROWAVE ANTENNA	10/16/2009
1-US-01583	2009-20900-		
		SYSTEMS FOR THERMAL-FEEDBACK-	l
	· ·	CONTROLLED RATE OF FLUID FLOW TO	
		FLUID-COOLED ANTENNA ASSEMBLY AND	
		METHODS OF DIRECTING ENERGY TO	
		METHODS OF BIRLOTHES THE	3/9/2012
H-EB-00038	2012-052613	TISSUE USING SAME	
		ENERGY-DELIVERY DEVICES WITH	
		FLEXIBLE FLUID-COOLED SHAFT,	
	1	INFLOW/OUTFLOW JUNCTIONS SUITABLE	
		FOR USE IWTH SAME, AND SYSTEMS	1.000/004
	2011-287386	INCLUDING SAME	12/28/201
H-EB-00045		TISSUE DISSECTORS	1/23/2013
H-EB-00053	2012-011039	APPARATUS, SYSTEM AND METHOD FOR	
		PERFORMING AN ELECTROSURGICAL	<b>\</b>
		PROCEDURE	11/11/201
H-EB-00062	2011-247231	ENERY-DELIVERY DEVICE INCLUDING	
		ENERY-DELIVERY DEVICE INVESTIGATION AND	
1		ULTRASOUND TRANSDUCER ARRAY AND	2/14/201
H-EB-00085	2012-029390	PHASED ANTENNA ARRAY	2,11,20.
FI-EB-00000		ENERGY-BASED ABLATION COMPLETION	3/19/201
H-EB-00121	2012-061668	ALGORITHM	3/19/201
H-EB-00121	2012 00 1500	MICROWAVE TISSUE DISSECTION AND	440400
	2012-087291	COAGULATION	4/6/201
H-EB-00129	2012-001231	MICROWAVE ABLATION INSTRUMENT	1
		WITH INTERCHANGEABLE ANTENNA	
		PROBE	4/6/20
H-EB-00134	2012-087246	ENERGY-DELIVERY DEVICES WITH	
		FLEXIBLE FLUID-COOLED SHAFT,	1
1		INFLOW/OUTFLOW JUNCTIONS SUITABLE	<u> </u>
		INFLOW/OUTFLOW JUNCTIONS COTTABLE	
		FOR USE IWTH SAME, AND SYSTEMS	12/26/20
H-EB-00154	2011-283289	INCLUDING SAME	12/20/20

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DOCKSONS		ENERGY-DELIVERY DEVICES WITH	
		FLEXIBLE FLUID-COOLED SHAFT,	
		INFLOW/OUTFLOW JUNCTIONS SUITABLE	
•	ļ	FOR USE WITH SAME, AND SYSTEMS	
-EB-00155	2011-283440	INCLUDING SAME	12/26/2011
-EB-00100	2011 200	ENERGY-DELIVERY DEVICES WITH	·
•		FLEXIBLE FLUID-COOLED SHAFT,	
		INFLOW/OUTFLOW JUNCTIONS SUITABLE	
		FOR USE WITH SAME, AND SYSTEMS	
-EB-00156	2011-282887	INCLUDING SAME	12/26/2011
-ED-00100		MICROWAVE FIELD-DETECTING NEEDLE	
		ASSEMBLIES, METHODS OF	
		MANUFACTURING SAME, METHODS OF	
		ADJUSTING AN ABLATION FIELD	
		RADIATING INTO TISSUE USING SAME,	40/40/0014
-I-EB-00227	2011-276800	AND SYSTEMS INCLUDING SAME	12/19/2011
1120 002		THE THE PART OF THE LIBING	
	'	ENERGY-DELIVERY DEVICE INCLUDING	
		ULTRASOUND TRANSDUCER ARRAY AND	
		PHASED ANTENNA ARRAY, AND METHODS	
		OF ADJUSTING AN ABLATION FIELD	2/13/2012
H-EB-00248	2012-028085	RADIATING INTO TISSUE USING SAME	21 13/2017
		HANDHELD MEDICAL DEVICES INCLUDING	
		MICROWAVE AMPLIFIER UNIT AT DEVICE	9/14/201
H-EB-00410	2012-202211	HANDLE	9/14/201
		CHOKED DIELECTRIC LOADED TIP DIPOLE	1/22/200
H-US-01179	2010-544404`	MICROWAVE ANTENNA POWER-STAGE ANTENNA INTEGRATED	17227200
			4/28/201
H-US-01252	2012-509844	SYSTEM MICROWAVE ABLATION ANTENNA	
		RADIATION DETECTOR	6/18/201
H-US-01593	2010-139423	LAPAROSCOPIC PORT WITH MICROWAVE	
H-US-01593		RECTIFIER	5/9/201
CIP 2	2012-107396	HIGH EFFICIENCY MICROWAVE	
		AMPLIFIER	7/16/201
H-US-01722	2010-161455	MICROWAVE ABLATION WITH TISSUE	
	0040 407064	TEMPERATURE MONITORING	8/25/201
H-US-01723	2010-187961	ILIVII LIVII ONLE MOTORILI	
		ELECTROSURGICAL DEVICES HAVING	1
1	and the second s	DIFLECTRIC LOADED COAXIAL APERTURE	≣ł
		WITH DISTALLY POSITIONED RESONANT	Į.
1		STRUCTURE AND METHOD OF	1
H-US-01736	2010-175112	MANUFACTURING SAME	8/4/20

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	F. (III)	DIRECTIVE WINDOW ABLATION ANTENNA	
H-US-01737	2010-174603	WITH DIELECTRIC LOADING	8/3/2010
		SURFACE ABLATION ANTENNA WITH	
H-US-01738	2010-181337	DIELECTRIC LOADING	8/13/2010
		ELECTROSURGICAL DEVICES WITH	
	2011-015136	CHOKE SHORTED TO BIOLOGICAL TISSUE	1/27/2011
H-US-01789 H-US-01791	2012-121524	MODIFIED WET TIP ANTENNA DESIGN	5/29/2012
H-03-01791	2012-12102-	METHOD FOR CONSTRUCTING A DIPOLE	
H-US-01792	2010-200996	ANTENNA	9/8/2010
11-00-017-02	2010 200000	DUAL ANTENNA MICROWAVE RESECTION	
		AND ABLATION DEVICE, SYSTEM AND	
H-US-01795	2012-010801	METHOD OF USE	1/23/2012
		ELECTROSURGICAL DEVICES,	
		DIRECTIONAL REFLECTOR ASSEMBLIES	
		COUPLEABLE THERETO, AND	
		ELECTROSURGICAL SYSTEMS INCLUDING	
H-US-01798	2010-214756	SAME	9/27/2010
H-US-01844	2010-255534	TWIN SEALING CHAMBER HUB	11/16/2010
		MICROWAVE SURFACE ABLATION USING	
H-US-01850	2010-214804	CONICAL PROBE	9/27/2010
		ELECTROSURGICAL DEVICES WITH	
		BALUN STRUCTURE FOR AIR EXPOSURE	
		OF ANTENNA RADIATING SECTION AND	
	•	METHOD OF DIRECTING ENERGY TO	4/00/0044
H-US-01900	2011-100326	TISSUE USING SAME	4/28/2011
		SYSTEM AND METHOD FOR CHECKING	
		HIGH POWER MICROWAVE ABLATION	9/15/2010
H-US-01901	2010-206698	SYSTEM STATUS ON STARTUP	9/15/2010
1		ABLATION DEVICES WITH ADJUSTABLE	
		RADIATING SECTION LENGTHS,	
		ELECTROSURGICAL SYSTEMS INCLUDING	
		SAME, AND METHODS OF ADJUSTING	1
11.110.04045	2011-64370	ABLATION FIELDS USING SAME	3/23/201
H-US-01915	2011-04370	ADDITION FIELDS SUIVE SUIVE	
1		SYSTEM AND METHOD FOR PERFORMING	
		AN ELECTROSURGICAL PROCEDURE	
	İ	USING AN ABLATION DEVICE WITH AN	
H-US-01919	2011-12862	INTEGRATED IMAGING DEVICE	1/25/201
1		MICROWAVE GROUND PLANE ANTENNA	
H-US-01921	2011-134687	PROBE	6/17/201

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(N. Kon Surker and Kon Surker		SELF-TUNING MICROWAVE ABLATION	
H-US-01923	2011-029452	PROBE	2/15/2011
		MICROWAVE ANTENNA PROBE HAVING A	
H-US-01928	2011-047874	DEPLOYABLE GROUND PLANE	3/4/2011
		TISSUE ABLATION SYSTEM WITH ENERGY	
H-US-01993	2010-206705	DISTRIBUTION	9/15/2010
		ABLATION DEVICE WITH USER	
		INTERFACE AT DEVICE HANDLE,	
		SYSTEMS INCLUDING SAME, AND	
		METHOD OF ABLATING TISSUE USING	4/44/0044
H-US-01994	2011-3083	SAME	1/11/2011
		SENSORS ON PATIENT SIDE FOR A	0/00/0044
H-US-01999	2011-014527	MICROWAVE GENERATOR	2/28/2011
		SYSTEM AND METHOD FOR MONITORING	4/40/0044
H-US-02103	2011-8938	ABLATION SIZE	1/19/2011
	·	SYSTEM AND METHOD FOR MONITORING	40/07/0040
H-US-02106	2010-240441	ABLATION SIZE	10/27/2010
		SYSTEM AND METHOD FOR MONITORING	0,05,0044
H-US-02107	2011-037972	ABLATION SIZE	2/25/2011
		SYSTEM AND METHOD FOR ABLATION	
		PROCEDURE MONITORING USING	1,100,100,10
H-US-02206	2012-010935	ELECTRODES	1/23/2012
		MICROWAVE SPACERS AND METHOD OF	10/04/0044
H-US-02333	2011-232681	USE	10/24/2011
		ABLATION DEVICES WITH DUAL	<u> </u>
	1	OPERATING FREQUENCIES, SYSTEMS	
		INCLUDING SAME, AND METHODS OF	
		ADUSTING ABLATION VOLUME USING	0/45/0044
H-US-02393	2011-029431	SAME	2/15/2011
		DUAL ANTENNA ASSEMBLY WITH USER-	7/45/0044
H-US-02394	2011-156313	CONTROLLED PHASE SHIFTING	7/15/2011
		MICROWAVE SURFACE COAGULATOR	3/23/2011
H-US-02418	2011-64080	WITH RETRACTABLE BLADE	3/23/2011
		MICROWAVE FIELD-DETECTING NEEDLE	
		ASSEMBLIES, METHODS OF	ŀ
		MANUFACTURING SAME, METHODS OF	
		ADJUSTING AN ABLATION FIELD RADIATING INTO TISSUE USING SAME,	
	0044 070050	AND SYSTEMS INCLUDING SAME,	12/20/201
H-US-02455	2011-278058	DEVICES AND METHODS FOR COOLING	12/20/201
H-US-00497	0040 400400	MICROWAVE ANTENNAS	7/13/2004
DIV	2010-130429	DEVICES AND METHODS FOR COOLING	77107200-
H-US-00497	0040 420420	MICROWAVE ANTENNAS	7/13/2004
DIV 2	2010-130430	INITOLOGAVAT VIAI FINIAVO	17107200

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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

### **Pending Foreign Applications**

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

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