

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3588945

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
GREATBATCH, INC.	10/27/2015
GREATBATCH LTD.	10/27/2015
ELECTROCHEM SOLUTIONS, INC.	10/27/2015
NEURONEXUS TECHNOLOGIES, INC.	10/27/2015
GREATBATCH-GLOBE TOOL, INC.	10/27/2015
PRECIMED INC.	10/27/2015
MICRO POWER ELECTRONICS, INC.	10/27/2015
RECEIVING PARTY DATA	
Name:	MANUFACTURERS AND TRADERS TRUST COMPANY
Street Address:	ONE FOUNTAIN PLAZA
City:	BUFFALO
State/Country:	NEW YORK
Postal Code:	14203
PROPERTY NUMBERS Total: 784	
Property Type	Number
Application Number:	62090919
Application Number:	62121307
Application Number:	62158696
Application Number:	62099288
Application Number:	62148766
Application Number:	62202506
Application Number:	62168084
Application Number:	62049609
Application Number:	62059414
Application Number:	62188126
Application Number:	62187843
Application Number:	62187532
Application Number:	62129162
Application Number:	62129178

Property Type	Number
Application Number:	62129186
Application Number:	62173118
Application Number:	62181827
Application Number:	14826229
Application Number:	13680083
Application Number:	14316896
Application Number:	14206152
Application Number:	14688302
Application Number:	14556239
Application Number:	14187295
Application Number:	14797123
Application Number:	14747582
Application Number:	14796154
Application Number:	13828102
Application Number:	13800729
Application Number:	13359954
Application Number:	14011156
Application Number:	14010872
Application Number:	14279415
Application Number:	13750420
Application Number:	13562169
Application Number:	14307054
Application Number:	14065431
Application Number:	14080830
Application Number:	14662536
Application Number:	14307536
Application Number:	14628318
Application Number:	14703961
Application Number:	14267261
Application Number:	14735234
Application Number:	13904252
Application Number:	14715915
Application Number:	13898845
Application Number:	14712073
Application Number:	13747293
Application Number:	14521552
Application Number:	14623747
Application Number:	14623991

Property Type	Number
Application Number:	14556847
Application Number:	14503583
Application Number:	14182569
Application Number:	14600401
Application Number:	13613419
Application Number:	14276798
Application Number:	14276961
Application Number:	13556242
Application Number:	14499310
Application Number:	14337498
Application Number:	14798747
Application Number:	14446996
Application Number:	14810758
Application Number:	14793780
Application Number:	14451830
Application Number:	14227270
Application Number:	14670539
Application Number:	14552880
Application Number:	14161756
Application Number:	14077239
Application Number:	13713115
Application Number:	14676037
Application Number:	14685661
Application Number:	13914249
Application Number:	14492112
Application Number:	13897765
Application Number:	13870045
Application Number:	13706537
Application Number:	13970087
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Application Number:	14170945
Application Number:	14195267
Application Number:	14602828
Application Number:	14641836
Application Number:	13958604
Application Number:	13932034
Application Number:	14014727
Application Number:	14479689

Property Type	Number
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Application Number:	14697028
Application Number:	13547484
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Application Number:	13743276
Application Number:	14192835
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Application Number:	13769428
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Application Number:	13867178
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Application Number:	14252572
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Application Number:	13198060
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Application Number:	13046144
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Application Number:	13226939
Application Number:	13226956
Application Number:	13250283

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Application Number:	13359652
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Application Number:	14010913
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Application Number:	13607037
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Application Number:	14535386
Application Number:	14537293
Application Number:	14537235
Application Number:	14537051
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Application Number:	14279925
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Application Number:	14319714
Application Number:	14316960

Property Type	Number
Application Number:	14320676
Application Number:	14321234
Application Number:	14322455
Application Number:	14322716
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Application Number:	14445382
Application Number:	14483233
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Patent Number:	D573256
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Patent Number:	6057062
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Patent Number:	6258473
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Patent Number:	6677077
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Patent Number:	6759163
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Patent Number:	6831827
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Patent Number:	6986796
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Patent Number:	7128765
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Patent Number:	7244279
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Patent Number:	7576513
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Patent Number:	7586736
Patent Number:	7588555

Property Type	Number
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Patent Number:	7797048
Patent Number:	7804676
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Patent Number:	7812691
Patent Number:	7813107

Property Type	Number
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Patent Number:	7844319
Patent Number:	7844348
Patent Number:	7849872
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Property Type	Number
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Patent Number:	8224462
Patent Number:	8239041
Patent Number:	8241788
Patent Number:	8241950
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Property Type	Number
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Property Type	Number
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Patent Number:	9101370
Patent Number:	9101767
Patent Number:	9101782
Patent Number:	9107677
Patent Number:	9108066
Patent Number:	9119968
Patent Number:	9123930
Patent Number:	9125670
Patent Number:	9126043

CORRESPONDENCE DATA

Fax Number: (215)988-2757

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.

Email: karen.spina@dbr.com

Correspondent Name: ROBERT E. CANNUSCIO

Address Line 1: ONE LOGAN SQUARE, STE. 2000

Address Line 2: DRINKER BIDDLE & REATH LLP

Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103

ATTORNEY DOCKET NUMBER:	042858-216837
NAME OF SUBMITTER:	ROBERT E. CANNUSCIO
SIGNATURE:	/Robert E. Cannuscio/
DATE SIGNED:	10/27/2015

Total Attachments: 81

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GRANT OF SECURITY INTEREST

WHEREAS, GREATBATCH, INC., a Delaware corporation ("GBI"), GREATBATCH LTD., a New York corporation ("GBL"), ELECTROCHEM SOLUTIONS, INC., a Massachusetts corporation ("ESI"), NEURONEXUS TECHNOLOGIES, INC., a Michigan corporation ("NNT"), GREATBATCH-Globe Tool, INC., a Minnesota corporation ("GGT"), PRECIMED INC., a Pennsylvania corporation ("PMI") and MICRO POWER ELECTRONICS, INC., a Delaware corporation ("MPE"), and together with GBI, GBL, ESI, NNT, GGT and PMI collectively the "Grantors" and each a "Grantor", own all right, title and interest in and to the U.S. patents and patent applications listed on Schedule A attached hereto, as listed thereon (the "Patents");

WHEREAS, pursuant to a Security Agreement dated as of October 27, 2015 by and among each Grantor, the other Grantors (as defined in the Security Agreement) referred to therein, and MANUFACTURERS AND TRADERS TRUST COMPANY ("M&T"), as the administrative agent (together with its successors and assigns in such capacity, the "Agent") (as the same may be amended, supplemented, restated or otherwise modified from time to time, the "Security Agreement"), the Grantors have granted to the Agent, for the benefit of the Secured Parties (as that term is defined in the Credit Agreement dated as of the date hereof by and among GBL, Greatbatch, Inc., the Agent and the Lenders referred to therein, as the same may be amended, restated, modified, refinanced or otherwise modified from time to time, the "Credit Agreement"), a security interest in, among other things, all right, title and interest of Grantor in and to the Patents, and all proceeds thereof, including, without limitation, any and all past, present and future causes of action which may exist by reason of infringement thereof (the "Collateral"), to secure the payment, performance and observance of the Secured Obligations (as that term is defined in the Credit Agreement);

WHEREAS, pursuant to prior security agreements by and among several of the Grantors and M&T, such Grantors have granted to the Agent, security interests in, among other things, all right, title and interest of Grantor in and to certain of the Patents, together with the applications and registrations thereof, and all proceeds thereof (the "Prior Security Interests"); and

WHEREAS, the parties wish to have all such Prior Security Interests assigned to Agent as part of the Collateral.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, each Grantor does hereby grant to the Agent a security interest in the Collateral, and assign the Prior Security Interests to the Agent to secure the prompt payment, performance and observance of the Secured Obligations.

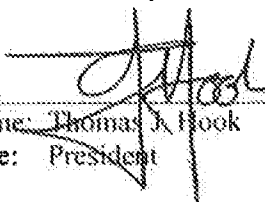
Each Grantor does hereby further acknowledge and affirm that the rights and remedies of the Agent with respect to the security interest in the Collateral made and granted

hereby are more fully set forth in the Security Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein.

[signature page follows]

IN WITNESS WHEREOF, Grantor has caused this Grant of Security Interest to be duly executed by its officer thereunto duly authorized as of October 27, 2015.

GREATBATCH, INC.

By: 

Name: Thomas J. Hook

Title: President

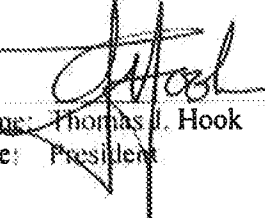
GREATBATCH-Globe Tool, INC.

By: 

Name: Thomas J. Hook

Title: President

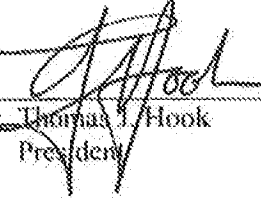
GREATBATCH, LTD.

By: 

Name: Thomas J. Hook

Title: President

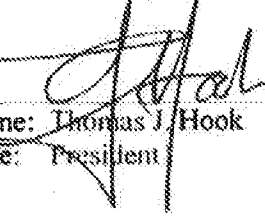
PRECIMED INC.

By: 

Name: Thomas J. Hook

Title: President

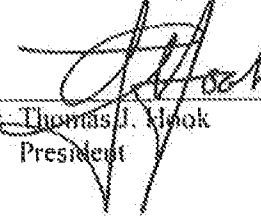
ELECTROCHEM SOLUTIONS, INC.

By: 

Name: Thomas J. Hook

Title: President

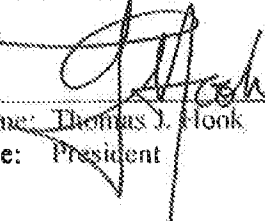
MICRO POWER ELECTRONICS, INC.

By: 

Name: Thomas J. Hook

Title: President

NEURONEXUS TECHNOLOGIES, INC.

By: 

Name: Thomas J. Hook

Title: President

Signature page to Grant of Security Interest - Patents

SCHEDULE A

Patents

See attached.

SCHEDULE A
TO
M&T / GREATBATCH PATENT SECURITY INTEREST

Greatbatch Pending US Applications

<u>TITLE</u>	<u>FIRST NAMED INVENTOR</u>	<u>APPLICATION NUMBER</u>	<u>DATE FILED</u>
BATTERY CELL WITH INCREASED ENERGY DENSITY AND IMPROVED END OF LIFE	Johnson et al.	62/090,919	Dec 12, 2014
MULTIPLE BATTERY CHARGING DISH	Peterson et al.	62/121,307	Feb 26, 2015
NITRIDING OF TITANIUM SCREENS TO PREVENT CORROSION FOR APPLICATIONS AS CURRENT COLLECTORS	Das et al.	62/158,696	May 8, 2015
RF SUPPRESSION DEVICE FOR MEDICAL LEADS	Johnson et al.	62/099,288	Jan 2, 2015
TWO STAGE TORQUE LIMITER	Victor et al.	62/148,766	Apr 17, 2015
BI- DIRECTIONAL REAMER ASSEMBLY	Sausen et al.	62/202,506	Aug 7, 2015
LOBED TORQUE LIMITER	Victor et al.	62/168,084	May 29, 2015
TAPER PROTECTION SYSTEM FOR ORTHOPEDIC IMPLANTS DURING POLISHING PHASES BY TRIBOFINISHING	Vautrin	62/049,609	Sep 12, 2014
SINGLE PROCEDURE TORQUE LIMITER	Adamiec	62/059,414	Oct 3, 2014
GRAPHENE- ENHANCED ORTHOPEDIC CUTTING INSTRUMENTS	Mroczkowski	62/188,126	Jul 2, 2015
HYBRID STRAIGHT CUP IMPACTOR	Li et al.	62/187,843	Jul 2, 2015
REAMER HANDLE COUPLING	Crandall et al.	62/187,532	Jul 1, 2015
APPARATUS AND METHOD FOR CARDIAC SIGNAL NOISE AND DISPOSITION BASED ON PHYSIOLOGIC RELEVANCE	Katra et al.	62/129,162	Mar 6, 2015

APPARATUS AND METHOD FOR PERSONALIZED CARDIAC SIGNAL PROCESSING	Katra	62/129,178	Mar 6, 2015
APPARATUS AND METHOD FOR DETERMINING AND CONFIRMING ONSET AND OFFSET OF CARDIAC ARRHYTHMIA	Katra	62/129,186	Mar 6, 2015
ADVANCED METHODS AND APPARATUSES FOR PERFORMING PELVIC NERVE STIMULATION	Kaula et al.	62/173,118	Jun 9, 2015
ADVANCED METHODS AND APPARATUSES FOR PERFORMING PELVIC NERVE STIMULATION	Kaula et al.	62/181,827	Jun 19, 2015
LOW IMPEDANCE OXIDE RESISTANT GROUNDED CAPACITOR FOR AN AIMD	Woods et al.	14/826,229	Aug 14, 2015
BAND STOP FILTER EMPLOYING A CAPACITOR AND AN INDUCTOR TANK CIRCUIT TO ENHANCE MRI COMPATIBILITY OF ACTIVE MEDICAL DEVICES	Halperin et al.	13/680,083	Nov 18, 2012
IMPLANTABLE LEAD HAVING MULTI-PLANAR SPIRAL INDUCTOR FILTER	Stevenson et al.	14/316,896	Jun 27, 2014
SURROGATE IMPLANTED MEDICAL DEVICE FOR ENERGY DISSIPATION OF EXISTING IMPLANTED LEADS DURING MRI SCANS	Stevenson et al.	14/206,152	Mar 12, 2014
RF FILTER FOR AN ACTIVE MEDICAL DEVICE (AMD) FOR HANDLING HIGH RF POWER INDUCED IN AN ASSOCIATED IMPLANTED LEAD FROM AN EXTERNAL RF FIELD	Stevenson et al.	14/688,302	Apr 16, 2015
SHIELDED THREE- TERMINAL FLAT- THROUGH EMI/ENERGY	Frysz et al.	14/556,239	Dec 1, 2014

DISSIPATING FILTER WITH CO-FIRED HERMETICALLY SEALED FEEDTHROUGH			
A LOW INDUCTANCE AND LOW RESISTANCE HERMETICALLY SEALED FILTERED FEEDTHROUGH FOR AN AIMD	Marzano et al.	14/187,295	Feb 23, 2014
HERMETICALLY SEALED FEEDTHROUGH WITH CO-FIRED FILLED VIA AND CONDUCTIVE INSERT FOR AN ACTIVE IMPLANTABLE DEVICE	Stevenson et al.	14/797,123	Jul 11, 2015
FEEDTHROUGH WIRE CONNECTOR FOR USE IN A MEDICAL DEVICE	Marzano et al.	14/747,582	Jun 23, 2015
IMPLANTABLE CARDIOVERTER DEFIBRILLATOR INCLUDING A PULSE OXYGEN MONITOR AND DESIGNED FOR USE IN A MAGNETIC RESONANCE IMAGING ENVIRONMENT	Frustaci et al.	14/796,154	Jul 10, 2015
ARBITRARY WAVEFORM GENERATOR & NEURAL STIMULATION APPLICATION WITH SCALABLE WAVEFORM FEATURE AND CHARGE BALANCING	Trier et al.	13/828,102	Mar 14, 2013
DUAL PATIENT CONTROLLERS	Wilder et al.	13/800,729	Mar 13, 2013
FEED-THROUGH CONNECTOR ASSEMBLY FOR IMPLANTABLE PULSE GENERATOR AND METHOD OF USE	Kelsch et al.	13/359,954	Jan 27, 2012
TOUCH SCREEN FINGER POSITION INDICATOR FOR A SPINAL CORD STIMULATION PROGRAMMING DEVICE	Drees et al.	14/011,156	Aug 27, 2013
METHOD AND SYSTEM OF MODEL SHADING AND	Kaula et al.	14/010,872	Aug 27, 2013

REDUCTION OF VERTICES FOR 3D IMAGING ON A CLINICIAN PROGRAMMER			
SYSTEM AND METHOD OF PROVIDING COMPUTER ASSISTED STIMULATION PROGRAMMING (CASP)	Kaula et al.	14/279,415	May 16, 2014
IMPLANTABLE ELECTRODE LEAD SYSTEM WITH A THREE DIMENSIONAL ARRANGEMENT AND METHOD OF MAKING THE SAME	Kong et al.	13/750,420	Jan 25, 2013
MULTILAYER HELICAL WAVE FILTER FOR MEDICAL THERAPEUTIC OR DIAGNOSTIC APPLICATIONS	Kondabatni et al.	13/562,169	Jul 30, 2012
INTRODUCER HANDLE NOTCH DESIGN/ CONCEPT	Kimmel et al.	14/307,054	Jun 17, 2014
HEADER EMBEDDED FILTER FOR IMPLANTABLE MEDICAL DEVICE	Stevenson et al.	14/065,431	Oct 29, 2013
BAND STOP FILTER COMPRISING AN INDUCTIVE COMPONENT DISPOSED IN A LEAD WIRE IN SERIES WITH AN ELECTRODE	Halperin et al.	14/080,830	Nov 15, 2013
RETRACTOR TOOLS FOR MINIMALLY INVASIVE HIP SURGERY	Ryshkus et al.	14/662,536	Mar 19, 2015
ACETABULAR REAMER	Lechot et al.	14/307,536	Jun 18, 2014
ARBITRARY WAVEFORM GENERATOR & NEURAL STIMULATION APPLICATION WITH SCALABLE WAVEFORM FEATURE	Trier et al.	14/628,318	Feb 23, 2015
DEVICES AND METHODS FOR VISUALLY INDICATING THE ALIGNMENT OF A TRANSCUTANEOUS ENERGY TRANSFER	Fell	14/703,961	May 5, 2015

DEVICE OVER AN IMPLANTED MEDICAL DEVICE			
CONTACT ASSEMBLY FOR IMPLANTABLE PULSE GENERATOR AND METHOD OF USE	Smith et al.	14/267,261	May 1, 2014
SET SCREW APPARATUS ANCHOR FOR IMPLANTABLE MEDICAL DEVICE	Sage et al.	14/735,234	Jun 10, 2015
COMMUNICATION FOR IMPLANTABLE MEDICAL DEVICES	Sage	13/904,252	May 29, 2013
LEAD IDENTIFICATION SYSTEM	Polefko et al.	14/715,915	May 19, 2015
LEAD POSITIONING AND FINNED FIXATION SYSTEM	North et al.	13/898,845	May 21, 2013
POSTERIOR TIBIAL NERVE AND/OR OTHER NERVE STIMULATION SYSTEM AND METHOD	Swoyer et al.	14/712,073	May 14, 2015
WAVEGUIDE NEURAL INTERFACE DEVICE	Barolat	13/747,293	Jan 22, 2013
METHOD FOR IMPLANTING AN IMPLANTABLE DEVICE IN BODY TISSUE	Seymour et al.	14/521,552	Oct 23, 2014
IMPLANTABLE NEURAL INTERFACE DEVICE WITH A DEFORMABLE CARRIER	Hetke et al.	14/623,747	Feb 17, 2015
METHOD AND SYSTEM FOR DETERMINING SETTINGS FOR DEEP BRAIN STIMULATION	Kipke et al.	14/623,991	Feb 17, 2015
FILTER CIRCUIT FOR AN ACTIVE IMPLANTABLE MEDICAL DEVICE	Toader et al.	14/556,847	Dec 1, 2014
CO-FIRED HERMETICALLY SEALED FEEDTHROUGH WITH ALUMINA SUBSTRATE AND PLATINUM FILLED VIA FOR AN ACTIVE IMPLANTABLE MEDICAL DEVICE	Stevenson et al.	14/503,583	Oct 1, 2014
	Tang et al.	14/182,569	Feb 18, 2014

ELEVATED HERMETIC FEEDTHROUGH INSULATOR ADAPTED FOR SIDE ATTACHMENT OF ELECTRICAL CONDUCTORS ON THE BODY FLUID SIDE OF AN ACTIVE IMPLANTABLE MEDICAL DEVICE	Marzano et al.	14/600,401	Jan 20, 2015
INTRODUCER FOR A MINIMALLY INVASIVE PHYSIOLOGIC PARAMETER RECORDER	Brockway et al.	13/613,419	Sep 13, 2012
METHOD OF DIRECT RESISTANCE WELDING- SELF BRAZING OF ALUMINUM TO MOLYBDENUM PIN	Dai	14/276,798	May 13, 2014
METHOD OF DIRECT RESISTANCE WELDING SELF BRAZING OF ALUMINUM TO MOLYBDENUM PIN	Dai	14/276,961	May 13, 2014
METHOD FOR MAKING FLAT AND HIGH-DENSITY CATHODES FOR USE IN ELECTROCHEMICAL CELLS	Shah et al.	13/556,242	Jul 24, 2012
POLYVINYLPIRIDINE ADDITIVES FOR NONAQUEOUS ELECTROLYTES ACTIVATING LITHIUM RECHARGEABLE ELECTROCHEMICAL CELLS	Park	14/499,310	Sep 29, 2014
DISPOSABLE CYLINDRICAL CUTTER	Victor	14/337,498	Jul 22, 2014
CARBON REAMER HANDLE	Rosse	14/798,747	Jul 14, 2015
ARBITRARY WAVEFORM GENERATOR & NEURAL STIMULATION APPLICATION	Trier et al.	14/446,996	Jul 30, 2014
PATIENT HANDHELD DEVICE FOR USE WITH A	Kaula et al.	14/810,758	Jul 28, 2015

SPINAL CORD STIMULATION SYSTEM MEASURING LOAD IMPEDANCE WITH ACTIVE STIMULATION PULSES IN AN IMPLANTED PULSE GENERATOR	Trier et al.	14/793,780	Jul 8, 2015
ELECTRICALLY IDENTIFIABLE ELECTRODE LEAD AND METHOD OF ELECTRICALLY IDENTIFYING AN ELECTRODE LEAD	Kaula et al.	14/451,830	Aug 5, 2014
ADJUSTABLE WIRE LENGTH STYLET HANDLE	Bridgeman et al.	14/227,270	Mar 27, 2014
DIVERSITY ANTENNAS FOR NEUROSTIMULAR PROGRAMMING DEVICES	Trier et al.	14/670,539	Mar 27, 2015
CLINICIAN PROGRAMMING SYSTEM AND METHOD	Dress et al.	14/552,880	Nov 25, 2014
BRAIDED LEAD WITH IMBEDDED FIXATION STRUCTURES	Finley et al.	14/161,756	Jan 23, 2014
LEAD WITH BRAIDED REINFORCEMENT	Finley et al.	14/077,239	Nov 12, 2013
IMPLANTABLE ELECTRODE AND METHOD OF MAKING THE SAME	Pellinen et al.	13/713,115	Dec 13, 2012
IMPLANTABLE ELECTRODE AND METHOD OF MAKING THE SAME	Pellinen et al.	14/676,037	Apr 1, 2015
NEURAL INTERFACE SYSTEM WITH EDGE ARRAY	Seymour et al.	14/685,661	Apr 14, 2015
ANTENNA COVERING FOR WIRELESS SENSOR	Stawitzky et al.	13/914,249	Jun 10, 2013
ADAPTIVE CHARGER TO MAXIMIZE CHARGE RATE	Peterson	14/492,112	Sep 22, 2014
HIGH TEMPERATURE PRIMARY BATTERY WITH IMPROVED SAFETY	Johnson et al.	13/897,765	May 20, 2013
FIRE SUPPRESSANT BATTERY PACK	Sweetland et al.	13/870,045	Apr 25, 2013
BALANCING DISCHARGE	Peterson et al.	13/706,537	Dec 6, 2012

IN PARALLEL BATTERY CONFIGURATION			
BATTERY AUTHENTICATION CIRCUIT	Peterson et al.	13/970,087	Aug 19, 2013
BATTERY PACK DESIGN FOR HIGH TEMPERATURE AND HIGH SHOCK AND VIBRATION	McKinnon et al.	14/058,683	Oct 21, 2013
CONTROL CIRCUIT FOR WIRELESS POWER	Peterson et al.	14/170,945	Feb 3, 2014
VOLTAGE CUTOFF CIRCUIT FOR AN ELECTROCHEMICAL CELL	Peterson et al.	14/195,267	Mar 3, 2014
SPLIT WINDING REPEATER	Peterson et al.	14/602,828	Jan 22, 2015
MIXED CATHODE MATERIAL WITH HIGH ENERGY DENSITY	Johnson et al.	14/641,836	Mar 9, 2015
MULTILAYER PLANAR SPIRAL INDUCTOR FILTER FOR MEDICAL THERAPEUTIC OR DIAGNOSTIC APPLICATIONS	Kondabatni et al.	13/958,604	Aug 4, 2013
CRYOGENIC GRINDING OF TANTALUM FOR USE IN CAPACITOR MANUFACTURE	Kaiser et al.	13/932,034	Jul 1, 2013
METHOD OF MAKING VACUUM PACKAGED CAPACITOR GRADE TANTALUM POWDER	Kaiser	14/014,727	Aug 30, 2013
HIGH VOLTAGE TANTALUM ANODE AND THE METHOD OF MANUFACTURE	Liu et al.	14/479,689	Sep 8, 2014
BI- DIRECTIONAL CATHETER STEERING HANDLE	Scheibe et al.	13/269,858	Oct 10, 2011
TRANSSEPTAL NEEDLE ASSEMBLY	Kimmel et al.	13/692,759	Dec 3, 2012
LITHIUM BATTERY HAVING IRREGULARLY SHAPED CASING	Yun et al.	13/531,706	Jun 25, 2012
NONAQUEOUS ELECTROLYTE FOR	Park	13/662,736	Oct 29, 2012

LITHIUM ELECTROCHEMICAL SAFETY			
INTERNAL INSULATION DESIGN USING POROUS MATERIAL FOR AN ELECTROCHEMICAL CELL	Krehl et al.	14/271,901	May 7, 2014
AUTOCLAVABLE CFX CELL	Gan et al.	14/148,061	Jan 6, 2014
COOPER DOPED SVO COMPOUNDS AS HIGH RATE CATHODE MATERIALS	Gan et al.	14/552,040	Nov 24, 2014
MULTI-THICKNESS CURRENT COLLECTOR	Talamine et al.	14/467,966	Aug 25, 2014
NEW HIGH CAPACITY CATHODE MATERIAL WITH IMPROVED RATE CAPABILITY PERFORMANCE	Palazzo et al.	14/599,915	Jan 19, 2015
NEW HIGH CAPACITY CATHODE MATERIAL WITH IMPROVED OPERATING VOLTAGE	Palazzo et al.	14/697,028	Apr 27, 2015
DUAL STAGE EMI FILTER AND OFFSET HIGHLY EFFICIENT MULTI-POLAR ACTIVE CAPACITOR ELECTRODES FOR AN ACTIVE IMPLANTABLE MEDICAL DEVICE	Brendel et al.	13/547,484	Jul 12, 2012
THICK FILM EMI FILTER CAPACITOR HERMETIC TERMINAL	Brendel et al.	13/525,617	Jun 18, 2012
EMI FILTERED CO- CONNECTED HERMETIC FEEDTHROUGH, FEEDTHROUGH CAPACITOR AND LEADWIRE ASSEMBLY FOR AN ACTIVE IMPLANTABLE MEDICAL DEVICE	Stevenson et al.	13/743,276	Jan 16, 2013
HEADER BLOCK FOR AN AIMD WITH AN ABANDONED LEAD	Stevenson et al.	14/192,835	Feb 27, 2014

CONNECTOR CAVITY SURFACE MODIFICATION FOR COATING	Ye	12/776,095	May 7, 2010
ULTRASONIC WELDING OF LITHIUM ONTO A CURRENT COLLECTOR	Dai et al.	13/346,409	Jan 9, 2012
DISSIMILAR MATERIAL BATTERY ENCLOSURE FOR IMPROVED WELD STRUCTURE	Freitag et al.	13/463,936	May 4, 2012
DUAL WELD PLUG FOR AN ELECTROCHEMICAL CELL	Dai et al.	13/769,428	Feb 18, 2013
MAGNETIC PULSE WELDING (MPW) IN MEDICAL POWER MANUFACTURING	Dai et al.	13/850,032	Mar 25, 2013
LASER WELDING- SELF BRAZING IN MEDICAL POWER MANUFACTURING	Dai et al.	13/867,178	Apr 22, 2013
ELECTROCHEMICAL CURRENT COLLECTOR SCREEN DESIGNS UTILIZING ULTRASONIC WELDING	Dai	14/028,324	Sep 16, 2013
SACRIFICIAL RESISTANCE WELD ELECTRODE	Dai	14/513,295	Oct 14, 2014
ELECTROCHEMICAL CELLS AND METHOD OF MANUFACTURING SAME	Davis et al.	11/934,098	Nov 2, 2007
MECHANICAL CONDITIONING OF LITHIUM IODINE CELL CASE	Kraft et al.	13/340,217	Dec 29, 2011
INSTRUMENT FOR RESHAPING THE HEAD OF THE FEMUR	Victor	14/252,572	Apr 14, 2014
CUTTER FOR CREATING HEMISPHERICAL CAVITIES	Victor	14/665,897	Mar 23, 2015
DISPOSABLE CUTTER ACETABULAR REAMER	Victor et al.	14/746,386	Jun 22, 2015
CUP IMPACTOR	Crandall et al.	13/198,060	Aug 4, 2011
DUAL COUPLING REAMER HANDLE	Khalili et al.	14/078,028	Nov 12, 2013
BROACH HANDLE WITH BIAS ATTACHMENT	Imbert	14/044,610	Oct 2, 2013

CUSTOMIZABLE JOINT REPLACEMENT APPARATUS	Anderson	14/332,481	Jul 16, 2014
THIN PROFILE STACKED LAYER CONTACT	Smith et al.	13/053,640	Mar 22, 2011
DUAL PATIENT CONTROLLERS	Wilder et al.	13/170,775	Jun 28, 2011
TUNNELING TOOL FOR IMPLANTABLE LEADS	Geroy	13/046,144	Mar 11, 2011
SYSTEM AND METHOD OF ESTABLISHING A PROTOCOL FOR PROVIDING ELECTRICAL STIMULATION WITH A STIMULATION SYSTEM TO TREAT A PATIENT	Kaula et al.	13/118,764	May 31, 2011
POSITIONING LEADS ON PATIENT MODEL USING A GRAPHICAL USER INTERFACE	Polefko et al.	13/226,939	Sep 7, 2011
CONFIGURING ELECTRICAL STIMULATION TO TREAT A PATIENT	Polefko et al.	13/226,956	Sep 7, 2011
MEDICAL IMPLANT RANGE EXTENSION BRIDGE APPARATUS AND METHOD	Polefko et al.	13/250,283	Sep 30, 2011
SUPER PLASTIC FORMING FOR TITANIUM IMPLANT ENCLOSURES	Kelsch et al.	13/359,652	Jan 27, 2012
HEAT DISPERSION FOR IMPLANTABLE MEDICAL DEVICES	Eiger	13/359,739	Jan 27, 2012
RETENTION APPARATUS CONTACT BLOCK USING SPHERICAL ELECTRICAL CONTACTS FOR CONTACTING IMPLANTABLE LEADS	Norris et al.	14/595,583	Jan 13, 2015
DIGITAL CONTROL FOR IMPLANTED PULSE GENERATORS	Eiger	13/359,861	Jan 27, 2012
PRINTED CIRCUIT BOARD CONNECTION TO FEEDTHROUGH	Trier et al.	14/041,082	Sep 30, 2013
	Smith et al.	13/303,219	Nov 23, 2011

METHOD OF PAIRING MULTIPLE PATIENT CONTROL DEVICES WITH A PATIENT MEDICAL DEVICE	Polefko	13/366,705	Feb 6, 2012
DYNAMIC COIL FOR IMPLANTABLE STIMULATION LEADS	Sage et al.	13/538,074	Jun 29, 2012
METHOD AND SYSTEM OF PRODUCING 2D REPRESENTATION OF 3D PAIN AND STIMULATION MAPS AND IMPLANT MODELS ON A CLINICIAN PROGRAMMER	Kaula et al.	13/973,219	Aug 22, 2013
METHOD AND SYSTEM OF BRACKETING STIMULATION PARAMETERS ON CLINICIAN PROGRAMMERS	Kaula et al.	13/973,292	Aug 22, 2013
COGNITION AND USABILITY APTITUDE EVALUATIONS FOR CLINICIAN PROGRAMMERS	Kaula et al.	13/600,943	Aug 31, 2012
VIRTUAL REALITY REPRESENTATION OF MEDICAL DEVICES	Kaula et al.	13/601,449	Aug 31, 2012
PROGRAMMING AND VIRTUAL REALITY REPRESENTATION OF STIMULATION PARAMETER GROUPS	Kaula et al.	13/601,631	Aug 31, 2012
METHOD AND SYSTEM OF EMULATING A PATIENT PROGRAMMER	Kaula et al.	14/010,913	Aug 27, 2013
PREDEFINED INPUT FOR CLINICIAN PROGRAMMER DATA ENTRY	Kaula et al.	14/010,942	Aug 27, 2013
TOUCH SCREEN SAFETY CONTROLS FOR CLINICIAN PROGRAMMER	Kaula et al.	13/601,504	Aug 31, 2012
METHOD AND SYSTEM OF SUGGESTING STIMULATION REGION	Kaula et al.	13/973,268	Aug 22, 2013

BASED ON PAIN AND STIMULATION MAPS WITH A CLINICIAN PROGRAMMER			
IMPLANT CURRENT CONTROLLED BATTERY CHARGING BASED ON TEMPERATURE	Labbe et al.	13/607,037	Sep 7, 2012
MODULAR LIMB PERIPHERAL NERVE STIMULATION SYSTEM AND METHOD OF USE	Barolat et al.	13/414,520	Mar 7, 2012
PUDENDAL AND SACRAL NERVE STIMULATION SWEEP ALGORITHM AND METHOD	Kaula et al.	14/536,863	Nov 10, 2014
IMPLANTABLE MEDICAL LEAD FOR STIMULATION OF MULTIPLE NERVES	Siegel et al.	14/535,386	Nov 7, 2014
IPG CONFIGURED TO DELIVER DIFFERENT PULSE REGIMES TO DIFFERENT LEADS FOR PUDENDAL NERVE STIMULATION	Kaula et al.	14/537,293	Nov 10, 2014
METHODS, SYSTEMS AND DEVICES FOR DETERMINING OPTIMAL PLACEMENT FOR PUDENDAL NERVE STIMULATION LEAD USING PATIENT FEEDBACK	Kaula et al.	14/537,235	Nov 10, 2014
IMPLANTABLE MEDICAL LEAD WITH COLLAPSIBLE FIXATION MEMBER	Spinelli et al.	14/537,051	Nov 10, 2014
METHOD AND SYSTEM OF SIMULATING A PULSE GENERATOR ON A CLINICIAN PROGRAMMER	Kaula et al.	14/015,107	Aug 30, 2013
APPARATUS, SYSTEM, AND METHOD FOR MINIMIZED ENERGY IN PERIPHERAL FIELD STIMULATION	Bradley	14/317,948	Jun 27, 2014
METHOD OF IMPROVING	Cottrill et al.	13/606,868	Sep 7, 2012

BATTERY RECHARGE EFFICIENCY BY STATISTICAL ANALYSIS			
METHOD OF MINIMIZING INTERRUPTION TO IMPLANTABLE MEDICAL DEVICE RECHARGING	Fell	13/606,921	Sep 7, 2012
METHOD AND SYSTEM OF QUICK NEUROSTIMULATION ELECTRODE CONFIGURATION AND POSITIONING	Kaula et al.	13/973,316	Aug 22, 2013
SYSTEM AND METHOD FOR IMPROVING NERVE FINDING FOR PERIPHERAL NERVE STIMULATION	Bradley et al.	14/322,172	Jul 2, 2014
SYSTEM AND METHOD FOR SELECTIVE AND MAINTAINED ACTIVATION OF SENSORY PERIPHERAL NERVE FIBERS	Bradley et al.	14/321,914	Jul 2, 2014
SYSTEMS, DEVICES, COMPONENTS AND METHODS FOR COMMUNICATION WITH AN IMD USING A PORTABLE ELECTRONIC DEVICE AND A MOBILE COMPUTING DEVICE	Woods et al.	14/245,225	Apr 4, 2014
METHOD AND APPARATUS FOR VISUALIZING A MIGRATION HISTORY OF PAIN MAPS AND STIMULATION MAPS	Kaula et al.	14/279,881	May 16, 2014
AUTOMATIC CURRENT BALANCING WITH LOCK CONTROL FOR A CLINICIAN PROGRAMMER	Kaula et al.	14/279,841	May 16, 2014
METHOD AND APPARATUS FOR DISPLAYING A GRAPHICAL IMPEDANCE HISTORY FOR OUTPUT CHANNELS OF A LEAD	Kaula et al.	14/279,925	May 16, 2014
SYSTEM AND METHOD OF DISPLAYING	Kaula et al.	14/279,749	May 16, 2014

STIMULATION MAP AND PAIN MAP OVERLAP COVERAGE REPRESENTATION			
CIRCUIT FOR DISCRIMINATING BETWEEN BATTERY CHARGING SIGNALS AND RF TELEMETRY SIGNALS RECEIVED BY A SINGLE COIL IN AN IMPLANTABLE MEDICAL DEVICE	Chen	14/319,714	Jun 30, 2014
NEUROSTIMULATOR INTERCONNECTION APPARATUS, SYSTEM, AND METHOD	Chen	14/316,960	Jun 27, 2014
NEUROSTIMULATION INTERCONNECTION APPARATUS, SYSTEM, AND METHOD	Robnett	14/320,676	Jul 1, 2014
SYSTEMS AND METHODS FOR REDUCING POWER CONSUMPTION IN AN IMPLANTABLE MEDICAL DEVICE	Chen et al.	14/321,234	Jul 1, 2014
PADDLE LEAD MAXIMIZING LATERAL TARGET POINTS ACROSS A PERIPHERAL NERVE	Halberg et al.	14/322,455	Jul 2, 2014
NEUROSTIMULATOR CONFIGURED TO SENSE EVOKED POTENTIALS IN PERIPHERAL NERVES	Halberg et al.	14/322,716	Jul 2, 2014
APPARATUS, SYSTEM, AND METHOD FOR TARGETED PLACEMENT OF A PERCUTANEOUS ELECTRODE	Bradley et al.	14/320,898	Jul 1, 2014
SYSTEM AND METHOD OF DEVELOPING A PROGRAM FOR PROVIDING THERAPEUTIC ELECTRICAL STIMULATION FOR TREATING A PATIENT	Kaula et al.	14/229,458	Mar 28, 2014
APPARATUS AND METHOD	Katra et al.	14/665,309	Mar 23, 2015

FOR IMPLANTING AN IMPLANTABLE DEVICE			
SUTURE ANCHOR APPARATUS	Bridgeman et al.	14/445,382	Jul 29, 2014
CONNECTOR APPARATUS	Bridgeman et al.	14/483,233	Sep 11, 2014
APPARATUS AND METHOD FOR PATIENT ACTIVITY ESTIMATION AND CLASSIFICATION	Katra et al.	14/200,550	Mar 7, 2014
APPARATUS AND METHOD FOR DETECTION OF SLEEP DISORDERED BREATHING	Katra et al.	14/208,021	Mar 13, 2014
CARDIAC SIGNAL RECORDING USING DYNAMICALLY GENERATED DETECTION THRESHOLDS	Katra et al.	14/209,035	Mar 13, 2014
APPARATUS AND METHOD FOR ELECTROCARDIOGRAPHIC MONITORING	Katra et al.	14/215,159	Mar 17, 2014
APPARATUS AND METHOD FOR CARDIAC SIGNAL NOISE DETECTION AND DISPOSITION BASED ON PHYSIOLOGIC RELEVANCE	Katra et al.	14/832,311	Aug 21, 2015
APPARATUS AND METHOD FOR PERSONALIZED CARDIAC SIGNAL PROCESSING	Katra	14/738,022	Jun 12, 2015
TUNNELING TOOL FOR DELIBERATE PLACEMENT OF AN ILR	Katra et al.	13/889,779	May 8, 2013
NEURAL DRUG DELIVERY SYSTEM WITH FLUIDIC THREADS	Hetke et al.	13/236,973	Sep 20, 2011
OPTO-ELECTRICAL DEVICE WITH ARTIFACT REDUCTION	Seymour et al.	13/557,516	Jul 25, 2012
NEUROMODULATION TRANSFECTION SYSTEM WITH ACTIVE FLUID DELIVERY	Seymour et al.	13/557,536	Jul 25, 2012
NEUROMODULATION TRANSFECTION SYSTEM WITH PASSIVE FLUID	Seymour et al.	13/557,555	Jul 25, 2012

DELIVERY			
NEURAL DEVICE WITH MODULAR ELECTRODE ARRAY	Kipke et al.	13/556,715	Jul 24, 2012
METHODS FOR FORMING AN ELECTRODE DEVICE WITH REDUCED IMPEDANCE	Seymour	13/617,355	Sep 14, 2012
OMNIDIRECTIONAL DEPLOYABLE MULTICHANNEL NEURAL ELECTRODE	Pellinen et al.	14/519,346	Oct 21, 2014
OMNIDIRECTIONAL DEPLOYABLE MULTICHANNEL NEURAL ELECTRODE	Pellinen et al.	14/519,583	Oct 21, 2014
THREE-DIMENSIONAL NEURAL PROBE MICROELECTRONIC ARRAY AND METHOD OF MANUFACTURE	Hetke et al.	14/537,197	Nov 10, 2014
THREE- DIMENSIONAL NEURAL PROBE MICROELECTRONIC ARRAY AND METHOD OF MANUFACTURE	Vetter et al.	14/536,867	Nov 10, 2014
TRANSSEPTAL NEEDLE APPARATUS	Katra et al.	13/875,621	May 2, 2013
TRANSSEPTAL NEEDLE APPARATUS	Katra et al.	13/888,845	May 7, 2013
LEAD WITH UNENCAPSULA BRAID REINFORCEMENT	Finley et al.	14/813,457	Jul 30, 2015
CHARGE PUMP SYSTEM, DEVICES AND METHODS FOR AN IMPLANTABLE STIMULATOR	Chen	14/322,394	Jul 2, 2014
MRI COMPATIBLE MEDICAL LEADS	Halperin	14/326,183	July 8, 2014

Greatbatch Issued US Patents

TITLE	PATENT NUMBER	GRANT DATE	RECORD OWNER
INTRODUCER APPARATUS	D573256	Jul 15, 2008	GREATBATCH LTD.
KEY FOR AN IMPLANTABLE MEDICAL DEVICE ACTIVATOR	D575628	Aug 26, 2008	GREATBATCH LTD.
MEDICAL HOUSING	D579569	Oct 28, 2008	GREATBATCH LTD.
MEDICAL HOUSING	D579568	Oct 28, 2008	GREATBATCH LTD.
DILATOR APPARATUS	D589143	Mar 24, 2009	GREATBATCH LTD.
CATHETER HANDLE	D612044	Mar 16, 2010	GREATBATCH LTD.
CATHETER HANDLE	D638934	May 31, 2011	GREATBATCH LTD.
CATHETER HANDLE	D653335	Jan 31, 2012	GREATBATCH LTD.
CATHETER HANDLE	D653337	Jan 31, 2012	GREATBATCH LTD.
FEMORAL ELEVATOR	D658285	Apr 24, 2012	GREATBATCH LTD.
DOUBLE ENDED RETRACTOR	D658286	Apr 24, 2012	GREATBATCH LTD.
INFERIOR ACETABULAR/PIRIFORMIS RETRACTOR	D658287	Apr 24, 2012	GREATBATCH LTD.
ANTERIOR RETRACTOR	D658288	Apr 24, 2012	GREATBATCH LTD.
SECONDARY ANTERIOR RETRACTOR	D658289	Apr 24, 2012	GREATBATCH LTD.
POSTERIOR RETRACTOR	D658290	Apr 24, 2012	GREATBATCH LTD.
TWO-PORT IMPLANTABLE MEDICAL DEVICE	D663035	Jul 3, 2012	GREATBATCH LTD.
THREE-PORT IMPLANTABLE MEDICAL DEVICE	D665086	Aug 7, 2012	GREATBATCH LTD.
MULTI-PORT IMPLANTABLE MEDICAL DEVICE	D665087	Aug 7, 2012	GREATBATCH LTD.
POCKET CONTROLLER FOR IMPLANTABLE NEUROSTIMULATOR	D671900	Dec 4, 2012	GREATBATCH LTD.
BATTERY PACK	D674747	Jan 22, 2013	GREATBATCH LTD.
CLINICIAN PROGRAMMER FOR IMPLANTABLE NEUROSTIMULATOR	D698779	Feb 4, 2014	GREATBATCH LTD.
SUPERIOR ACETABULAR RETRACTOR	D706924	Jun 10, 2014	GREATBATCH LTD.
OXIDIZED ALKALI	5604055	Feb 18, 1997	GREATBATCH, LTD.

METAL-HALOGEN CELL CASE			(NEW YORK CORPORATION)
MEDIUM AND HIGH DISCHARGE RATE COMBINATION BATTERY AND METHOD	5614331	Mar 25, 1997	GREATBATCH, LTD. (NEW YORK CORPORATION)
SEPARATOR INSERT FOR ELECTROCHEMICAL CELLS	5631102	May 20, 1997	GREATBATCH, LTD. (NEW YORK CORPORATION)
NONAQUEOUS ELECTROCHEMICAL CELL HAVING A MIXED CATHODE AND METHOD OF PREPARATION	5639577	Jun 17, 1997	GREATBATCH, LTD. (NEW YORK CORPORATION)
FILTERED FEEDTHROUGH ASSEMBLY HAVING A MOUNTED CHIP CAPACITOR FOR MEDICAL IMPLANTABLE DEVICES AND METHOD OF MANUFACTURE THEREFOR	5650759	Jul 22, 1997	GREATBATCH, LTD. (NEW YORK CORPORATION)
ELECTROCHEMICAL CELL HAVING A CATHODE COMPRISING DIFFERING ACTIVE FORMULATIONS AND METHOD	5667910	Sep 16, 1997	GREATBATCH, LTD. (NEW YORK CORPORATION)
MIXED CATHODE FORMULATION FOR ACHIEVING END-OF-LIFE INDICATION	5667916	Sep 16, 1997	GREATBATCH, LTD. (NEW YORK CORPORATION)
PREPARATION OF SILVER VANADIUM OXIDE USING NITRIC ACID WITH OXIDE STARTING MATERIALS	5695892	Dec 9, 1997	GREATBATCH, LTD. (NEW YORK CORPORATION)
ALKALI METAL ELECTROCHEMICAL CELL WITH IMPROVED ENERGY DENSITY	5716728	Feb 10, 1998	GREATBATCH, LTD. (NEW YORK CORPORATION)
DUAL CONNECTION TAB CURRENT COLLECTOR	5750286	May 12, 1998	GREATBATCH, LTD. (NEW YORK CORPORATION)
EMI FILTER FOR HUMAN	5751539	May 12, 1998	GREATBATCH, LTD.

IMPLANTABLE HEART DEFIBRILLATORS AND PACEMAKERS			(NEW YORK CORPORATION)
ELECTROCHEMICAL CELL HAVING MECHANICAL SHOCK TOLERANCE	5756229	May 26, 1998	ELECTROCHEM SOLUTIONS, INC.
FLAT-FOLDED, MULTI-PLATE ELECTRODE ASSEMBLY	5776628	Jul 7, 1998	GREATBATCH, LTD. (NEW YORK CORPORATION)
HERMETIC SEAL FOR AN ELECTROCHEMICAL CELL	5776632	Jul 7, 1998	GREATBATCH LTD.
TERNARY SOLVENT NONAQUEOUS ORGANIC ELECTROLYTE FOR ALKALI METAL ELECTROCHEMICAL CELLS	5776635	Jul 7, 1998	GREATBATCH, LTD. (NEW YORK CORPORATION)
DISCHARGE PROMOTER MIXTURE FOR REDUCING CELL SWELLING IN ALKALI METAL ELECTROCHEMICAL CELLS	5807645	Sep 15, 1998	GREATBATCH, LTD. (NEW YORK CORPORATION)
ULTRASONICALLY COATED SUBSTRATE FOR USE IN A CAPACITOR	5894403	Apr 13, 1999	GREATBATCH, LTD. (NEW YORK CORPORATION)
SUBSTRATE MOUNTED FILTER FOR FEEDTHROUGH DEVICES	5896267	Apr 20, 1999	GREATBATCH, LTD. (NEW YORK CORPORATION)
NOVEL SEPARATOR FOR ELECTROCHEMICAL CELLS	5902696	May 11, 1999	GREATBATCH, LTD. (NEW YORK CORPORATION)
NOVEL ELECTRODE EDGE DESIGN	5905001	May 18, 1999	GREATBATCH, LTD. (NEW YORK CORPORATION)
INTERNALLY GROUNDED FEED THROUGH FILTER CAPACITOR	5905627	May 18, 1999	GREATBATCH, LTD. (NEW YORK CORPORATION)
INSTRUMENT CASSETTE	5918740	Jul 6, 1999	GREATBATCH LTD.
ONE STEP ULTRASONICALLY COATED SUBSTRATE FOR USE IN A CAPACITOR	5920455	Jul 6, 1999	GREATBATCH, LTD. (NEW YORK CORPORATION)
HERMETICALLY SEALED	5926362	Jul 20, 1999	GREATBATCH, LTD.

CAPACITOR			(NEW YORK CORPORATION)
ELECTROCHEMICAL CELL HAVING MULTIPLATE ELECTRODES WITH DIFFERING DISCHARGE RATE REGIONS	5935724	Aug 10, 1999	GREATBATCH, LTD. (NEW YORK CORPORATION)
ELECTROCHEMICAL CELL HAVING MULTIPLATE AND JELLYROLL ELECTRODES WITH DIFFERING DISCHARGE RATE REGIONS	5935728	Aug 10, 1999	GREATBATCH, LTD. (NEW YORK CORPORATION)
CHIP CAPACITOR ELECTROMAGNETIC INTERFERENCE FILTER	5959829	Sep 28, 1999	GREATBATCH, LTD. (NEW YORK CORPORATION)
IMPROVED CHIP CAPACITORS AND CHIP CAPACITOR ELECTROMAGNETIC INTERFERENCE FILTERS	5973906	Oct 26, 1999	GREATBATCH, LTD. (NEW YORK CORPORATION)
CAPACITOR WITH DUAL ELEMENT ELECTRODE PLATES	5978204	Nov 2, 1999	GREATBATCH, LTD. (NEW YORK CORPORATION)
HERMETICALLY SEALED EMI FEEDTHROUGH FILTER CAPACITOR FOR HUMAN IMPLANT AND OTHER APPLICATIONS	6008980	Dec 28, 1999	GREATBATCH, LTD. (NEW YORK CORPORATION)
STERILIZATION ASSEMBLY FOR INSTRUMENT CASE	6010670	Jan 4, 2000	GREATBATCH LTD.
SLOTTED INSULATOR FOR UNSEALED ELECTRODE EDGES IN ELECTROCHEMICAL CELLS	6013113	Jan 11, 2000	GREATBATCH, LTD. (NEW YORK CORPORATION)
METHOD FOR MODIFYING THE ELECTROCHEMICAL SURFACE AREA OF A CELL USING A PERFORATED FILM	6030422	Feb 29, 2000	ELECTROCHEM SOLUTIONS, INC.
ELECTRODE ASSEMBLY	6037077	Mar 14, 2000	GREATBATCH LTD.

FOR HIGH ENERGY DEVICES			
METHOD FOR PREPARING NONAQUEOUS ELECTROLYTES FOR ALKALI ION ELECTROCHEMICAL CELLS CONTAINING UNSYMMETRIC ORGANIC CARBONATES	6057062	May 2, 2000	GREATBATCH, LTD. (NEW YORK CORPORATION)
INORGANIC AND ORGANIC NITRATE ADDITIVES FOR NONAQUEOUS ELECTROLYTE IN ALKALI ELECTROCHEMICAL CELLS	6060184	May 9, 2000	GREATBATCH, LTD. (NEW YORK CORPORATION)
DICARBONATE ADDITIVES FOR NONAQUEOUS ELECTROLYTE IN ALKALI METAL ELECTROCHEMICAL CELLS	6063526	May 16, 2000	GREATBATCH, LTD. (NEW YORK CORPORATION)
ORGANIC PHOSPHATE ADDITIVES FOR NONAQUEOUS ELECTROLYTE IN ALKALI METAL ELECTROCHEMICAL CELLS	6068950	May 30, 2000	GREATBATCH, LTD. (NEW YORK CORPORATION)
STORAGE CONTAINER WITH FILTER	6077485	Jun 20, 2000	GREATBATCH LTD.
METHOD FOR IMPROVING ELECTRICAL CONDUCTIVITY OF METALS, METAL ALLOYS AND METAL OXIDES	6096391	Aug 1, 2000	GREATBATCH, LTD. (NEW YORK CORPORATION)
PHOSPHONATE ADDITIVES FOR NONAQUEOUS ELECTROLYTE IN ALKALI METAL ELECTROCHEMICAL	6096447	Aug 1, 2000	GREATBATCH, LTD. (NEW YORK CORPORATION)

CELLS			
CHEMICALLY MACHINED CURRENT COLLECTOR DESIGN	6110622	Aug 29, 2000	GREATBATCH, LTD. (NEW YORK CORPORATION)
METHOD FOR HERMETICALLY SEALING AND ELECTROCHEMICAL CELL	6117195	Sep 12, 2000	GREATBATCH, LTD. (NEW YORK CORPORATION)
MODULAR STERILIZATION CONTAINER	6138850	Oct 31, 2000	GREATBATCH LTD.
AUTOCLAVABLE ELECTROCHEMICAL CELL	6150057	Nov 21, 2000	GREATBATCH, LTD. (NEW YORK CORPORATION)
NONAQUEOUS ORGANIC ELECTROLYTES FOR LOW TEMPERATURE DISCHARGE OF RECHARGEABLE ALKALI METAL ELECTROCHEMICAL CELLS	6153338	Nov 28, 2000	GREATBATCH, LTD. (NEW YORK CORPORATION)
PROCESS FOR DEPOSITING A METAL COATING ON A METALLIC COMPONENT OF AN ELECTRICAL STRUCTURE	6159560	Dec 12, 2000	GREATBATCH, LTD. (NEW YORK CORPORATION)
CONTROL OF SWELLING IN ALKALI METAL ELECTROCHEMICAL CELLS	6171729	Jan 9, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
PROCESS FOR FABRICATION OF LOW BASIS WEIGHT ELECTRODE ACTIVE BLANKS	6174622	Jan 16, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
DICARBONATE ADDITIVES FOR NONAQUEOUS ELECTROLYTE RECHARGEABLE CELLS	6174629	Jan 16, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
METHOD FOR REDUCING VOLTAGE DELAY IN AN ALKALI METAL	6180283	Jan 30, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)

ELECTROCHEMICAL CELL ACTIVATED WITH A NONAQUEOUS ELECTROLYTE HAVING A SULFATE ADDITIVE			
PHOSPHONATE ADDITIVES FOR NONAQUEOUS ELECTROLYTE IN RECHARGEABLE CELLS	6200701	Mar 13, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
PHOSPHATE ADDITIVES FOR NONAQUEOUS ELECTROLYTE RECHARGEABLE ELECTROCHEMICAL CELLS	6203942	Mar 20, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
APPARATUS FOR CHARGING MULTIPLE BATTERIES	6204632	Mar 20, 2001	GREATBATCH LTD.
PROTECTION DEVICE FOR PROTECTING AN ELECTRICAL COMPONENT AND METHOD OF ASSEMBLING A BATTERY WITH A PROTECTION DEVICE AND AN ELECTRICAL COMPONENT	6205034	Mar 20, 2001	ELECTROCHEM SOLUTIONS, INC.
NITRITE ADDITIVES FOR NONAQUEOUS ELECTROLYTE RECHARGEABLE ELECTROCHEMICAL CELLS	6210839	Apr 3, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
ELECTROLYTE FOR USE IN A CAPACITOR	6219222	Apr 17, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
ALKALI METAL ELECTROCHEMICAL CELL HAVING AN IMPROVED CATHODE ACTIVATED WITH A NONAQUEOUS ELECTROLYTE HAVING A CARBONATE ADDITIVE	6221534	Apr 24, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)

ONE STEP ULTRASONICALLY COATED SUBSTRATE FOR USE IN A CAPACITOR	6224985	May 1, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
HEADER INSULATOR	6224999	May 1, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
METAL VANADIUM OXIDE PARTICLES	6225007	May 1, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
ANNEALING OF MIXED METAL OXIDE ELECTRODES TO REDUCE POLARIZATION RESISTANCE	6228534	May 8, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
ANODIZED TANTALUM PELLET FOR AN ELECTROLYTIC CAPACITOR	6231993	May 15, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
HERMETICALLY SEALED LITHIUM-ION SECONDARY ELECTROCHEMICAL CELL	6245464	Jun 12, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
ELECTROCHEMICAL CELL HAVING MULTIPLATE ELECTRODES WITH DIFFERING DISCHARGE RATE REGIONS	6258473	Jul 10, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
ALKALI METAL ELECTROCHEMICAL CELL ACTIVATED WITH A NONAQUEOUS ELECTROLYTE HAVING A SULFATE ADDITIVE	6265106	Jul 24, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
METHOD FOR REDUCING VOLTAGE DELAY IN ALKALI METAL ELECTROCHEMICAL CELLS ACTIVATED WITH A NONAQUEOUS ELECTROLYTE HAVING A PHOSPHATE ADDITIVE	6274269	Aug 14, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
EMI FILTER FEEDTHROUGH	6275369	Aug 14, 2001	GREATBATCH, LTD. (NEW YORK

TERMINAL ASSEMBLY HAVING A CAPTURE FLANGE TO FACILITATE AUTOMATED ASSEMBLY			CORPORATION)
INTRODUCER WITH LOCATION MARKER	6277108	Aug 21, 2001	GREATBATCH LTD.
REFORMING WET- TANTALUM CAPACITORS IN IMPLANTABLE DEFIBRILLATORS AND OTHER MEDICAL DEVICES	6283985	Sep 4, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
STIFFENED PROTECTION DEVICE FOR PROTECTING AN ELECTRICAL COMPONENT	6317335	Nov 13, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
PHYSICAL VAPOR DEPOSITED ELECTRODE COMPONENT AND METHOD OF MANUFACTURE	6332900	Dec 25, 2001	GREATBATCH, LTD. (NEW YORK CORPORATION)
METHOD FOR PROVIDING A HERMETICALLY SEALED CAPACITOR	6334879	Jan 1, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
CONTAINER HAVING A HERMETIC SEAL	6361898	Mar 26, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
FUEL GAUGE FOR AN ALKALI METAL ELECTROCHEMICAL CELL	6377850	Apr 23, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
WOUND CELL STACK DESIGN FOR ENHANCED BATTERY PERFORMANCE	6383680	May 7, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
METAL VANADIUM OXIDE PARTICLES	6391494	May 21, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
ALKALI METAL ELECTROCHEMICAL CELL ACTIVATED WITH A NONAQUEOUS ELECTROLYTE HAVING A SULFITE ADDITIVE	6403256	Jun 11, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
HIGH TEMPERATURE	6410181	Jun 25, 2002	GREATBATCH, LTD.

LITHIUM OXYHALIDE ELECTROCHEMICAL CELL			(NEW YORK CORPORATION)
MELT IMPREGNATION OF MIXED METAL OXIDE	6413669	Jul 2, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
VARIABLE DENSITY CATHODE ASSEMBLY WHICH FACILITATES WINDING	6420066	Jul 16, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
CELL STACK DESIGN WITH BI- DIRECTIONALLY WOUND SLOTTED ELECTRODES AND METHOD FOR MAKING	6423442	Jul 23, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
ELECTROMAGNETIC INTERFERENCE (EMI) FILTER AND PROCESS FOR PROVIDING ELECTROMAGNETIC COMPATIBILITY OF AN ELECTRONIC DEVICE WHILE IN THE PRESENCE OF AN ELECTROMAGNETIC EMITTER OPERATING AT THE SAME FREQUENCY	6424234	Jul 23, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
METHOD FOR PROVIDING A BI-DIRECTIONALLY WOUND CELL STACK FOR ENHANCED BATTERY PERFORMANCE	6425928	Jul 30, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
PROTECTION DEVICE HAVING TAPERED RIBS AND METHOD OF ASSEMBLING A BATTERY WITH A PROTECTION DEVICE AND AN ELECTRICAL COMPONENT	6426867	Jul 30, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
PROTECTION DEVICE AND METHOD OF DETERMINING EXPOSURE	6437239	Aug 20, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)

TEMPERATURE ELECTROCHEMICAL CELL ACTIVATED WITH A NONAQUEOUS ELECTROLYTE HAVING A SULFATE ADDITIVE	6444360	Sep 3, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
ENHANCED CAPACITY LI/CFX ELECTROCHEMICAL CELL	6451483	Sep 17, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
METHOD FOR PREPARATION OF THERMAL SPRAY COATED SUBSTRATE FOR USE IN AN ELECTRICAL ENERGY STORAGE DEVICE	6455108	Sep 24, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
INTEGRATED EMI FILTER-DC BLOCKING CAPACITOR	6456481	Sep 24, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
CATHODE ASSEMBLY WITH BARE CURRENT COLLECTOR REGIONS TO FACILITATE WINDING	6461759	Oct 8, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
METHOD FOR PROVIDING A CHEMICALLY MACHINED CURRENT COLLECTOR	6461771	Oct 8, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
METHOD FOR PROVIDING A ONE STEP ULTRASONICALLY COATED SUBSTRATE	6468605	Oct 22, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
LOW INDUCTANCE FOUR TERMINAL CAPACITOR LEAD FRAME	6473291	Oct 29, 2002	GREATBATCH LTD.
HEADER INSULATOR FOR A BATTERY	6475669	Nov 5, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
INSTALLATION OF FILTER CAPACITORS INTO FEEDTHROUGHS FOR IMPLANTABLE MEDICAL DEVICES	6490148	Dec 3, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)
PHOSPHONATE ADDITIVES FOR NONAQUEOUS	6495285	Dec 17, 2002	GREATBATCH, LTD. (NEW YORK CORPORATION)

ELECTROLYTE IN RECHARGEABLE ELECTROCHEMICAL CELLS			
HIGH RATE BATTERIES	6503646	Jan 7, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
THERMO-ENCAPSULATING SYSTEM AND METHOD	6508901	Jan 21, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
ELECTROCHEMICAL CELL HAVING AN ELECTRODE WITH A PHOSPHATE ADDITIVE IN THE ELECTRODE ACTIVE MIXTURE	6511772	Jan 28, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
INTERNALLY GROUNDED FEEDTHROUGH FILTER CAPACITOR WITH IMPROVED GROUND PLANE DESIGN FOR HUMAN IMPLANT AND OTHER APPLICATIONS	6529103	Mar 4, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
SANDWICH CATHODE DESIGN FOR ALKALI METAL ELECTROCHEMICAL CELL WITH HIGH DISCHARGE RATE CAPABILITY	6551747	Apr 22, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
FEEDTHROUGH CAPACITOR FILTER ASSEMBLIES WITH LEAK DETECTION VENTS	6566978	May 20, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
ELECTROCHEMICAL CELL WITH NOVEL HEADER ASSEMBLY	6569562	May 27, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
ELECTROCHEMICAL CELL HAVING AN ELECTRODE WITH A DICARBONATE ADDITIVE IN THE ELECTRODE ACTIVE MIXTURE	6586135	Jul 1, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
LOCKING CATHETER INTRODUCING SYSTEM	6589262	Jul 8, 2003	GREATBATCH LTD.
SEPARATOR ENVELOPE	6593028	Jul 15, 2003	GREATBATCH, LTD.

FOR SWELLING IN ELECTROCHEMICAL CELLS			(NEW YORK CORPORATION)
MANUFACTURING PROCESS FOR IMPROVED DISCHARGE OF LITHIUM-CONTAINING ELECTROCHEMICAL CELLS	6593029	Jul 15, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
ELECTROCHEMICAL CELL HAVING AN ELECTRODE WITH A CARBONATE ADDITIVE IN THE ELECTRODE ACTIVE MIXTURE	6605385	Aug 12, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
APPLICATION OF GAMMA-SVO AND MIXTURE OF GAMMA-SVO/EPSILON-SVO IN HIGH RATE ELECTROCHEMICAL LITHIUM CELLS CONTAINING SVO/CFX/SVO SANDWICH CATHODES	6607861	Aug 19, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
ONE-PIECE HEADER ASSEMBLY FOR HERMETIC BATTERY TERMINAL FEEDTHROUGH, FILL AND CLOSURE DESIGNS	6610443	Aug 26, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
CELL DESIGN FOR IMPROVED ENERGY DENSITY	6613474	Sep 2, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
LINK FUSE	6617953	Sep 9, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
TRACE FUSE	6618273	Sep 9, 2003	ELECTROCHEM SOLUTIONS, INC.
ELECTROCHEMICAL LITHIUM ION SECONDARY CELL HAVING MULTIPLATE AND JELLYROLL ELECTRODES WITH DIFFERING DISCHARGE	6623884	Sep 23, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)

RATE REGIONS			
WIRE BONDING SURFACE	6626680	Sep 30, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
CONVERSION OF LOW RATE ENERGY INTO HIGH RATE ENERGY BY PARALLEL DISCHARGING	6627337	Sep 30, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
ELECTROCHEMICAL LITHIUM ION SECONDARY CELL HAVING A SCALLOPED ELECTRODE ASSEMBLY	6635381	Oct 21, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
SAFETY INTRODUCER APPARATUS AND METHOD THEREFOR	6641564	Nov 4, 2003	GREATBATCH LTD.
SECONDARY CELL WITH HIGH RATE PULSE CAPABILITY	6641953	Nov 4, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
A PROCESS FOR MANUFACTURING AN EMI FILTER FEEDTHROUGH TERMINAL ASSEMBLY	6643903	Nov 11, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
EFFICIENT CELL STACK FOR CELLS WITH DOUBLE SCREEN SANDWICH CATHODES	6645670	Nov 11, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
BATTERY HOUSING, ELECTRICITY DELIVERING SYSTEM AND METHOD OF DELIVERING ELECTRICITY	6656631	Dec 2, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
CAPACITOR GRADE POWDERS	6659283	Dec 9, 2003	GREATBATCH, LTD. (NEW YORK CORPORATION)
PROTECTION DEVICE HAVING A SLEEVE AND METHOD OF ASSEMBLING A BATTERY WITH A PROTECTION DEVICE AND AN ELECTRICAL COMPONENT	6671187	Dec 30, 2003	ELECTROCHEM SOLUTIONS, INC.

DOUBLE CURRENT COLLECTOR CATHODE DESIGN USING THE SAME ACTIVE MATERIAL IN VARYING THICKNESSES FOR ALKALI METAL OR ION ELECTROCHEMICAL CELLS	6673487	Jan 6, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
DOUBLE CURRENT COLLECTOR CATHODE DESIGN USING THE SAME ACTIVE MATERIAL IN VARYING FORMULATIONS FOR ALKALI METAL OR ION ELECTROCHEMICAL CELLS	6673493	Jan 6, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
ELECTROCHEMICAL CELL HAVING MULTIPLATE ELECTRODES WITH DIFFERING DISCHARGE RATE REGIONS	6677077	Jan 13, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
METHOD FOR PROVIDING A CATHODE OF A MIXED PHASE METAL OXIDE	6685752	Feb 3, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
HEADER INSULATOR FOR AN ELECTROCHEMICAL CELL	6686088	Feb 3, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
ELECTROLYTES FOR CAPACITORS	6687117	Feb 3, 2004	GREATBATCH LTD.
DOUBLE CURRENT COLLECTOR CATHODE DESIGN USING MIXTURES OF TWO ACTIVE MATERIALS FOR ALKALI METAL OR ION ELECTROCHEMICAL CELLS	6692865	Feb 17, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
DOUBLE CURRENT COLLECTOR CATHODE DESIGN FOR ALKALI METAL ELECTROCHEMICAL CELLS HAVING SHORT CIRCUIT SAFETY	6692871	Feb 17, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)

CHARACTERISTICS			
INTRODUCER HAVING A MOVABLE VALVE ASSEMBLY WITH REMOVABLE SIDE PORT	6712789	Mar 30, 2004	GREATBATCH LTD.
POWDER PROCESS FOR DOUBLE CURRENT COLLECTOR SCREEN CATHODE PREPARATION	6727022	Apr 27, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
DOUBLE CURRENT COLLECTOR NEGATIVE ELECTRODE DESIGN FOR ALKALI METAL ION ELECTROCHEMICAL CELLS	6737191	May 18, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
PROCESS FOR DOUBLE CURRENT COLLECTOR SCREEN CATHODE PREPARATION	6743547	Jun 1, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
DOUBLE CURRENT COLLECTOR CATHODE DESIGN USING CHEMICALLY SIMILAR ACTIVE MATERIALS FOR ALKALI METAL ELECTROCHEMICAL CELLS	6743550	Jun 1, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
NONAQUEOUS ORGANIC ELECTROLYTES FOR LOW TEMPERATURE DISCHARGE OF RECHARGEABLE ELECTROCHEMICAL CELLS	6746804	Jun 8, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
METAL VANADIUM OXIDE PARTICLES	6749966	Jun 15, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
MISMATCHED COMPRESSION GLASS- TO-METAL SEAL	6759163	Jul 6, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
ORGANIC CARBONATE ADDITIVES FOR NONAQUEOUS ELECTROLYTE RECHARGEABLE ELECTROCHEMICAL	6759170	Jul 6, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)

CELLS REFORMING WET- TANTALUM CAPACITORS IN IMPLANTABLE DEFIBRILLATORS AND OTHER MEDICAL DEVICES	6761728	Jul 13, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
EMI FEEDTHROUGH FILTER TERMINAL ASSEMBLY FOR HUMAN IMPLANT APPLICATIONS UTILIZING OXIDE RESISTANT BIOSTABLE CONDUCTIVE PADS FOR RELIABLE ELECTRICAL ATTACHMENTS	6765779	Jul 20, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
EMI FEEDTHROUGH FILTER TERMINAL ASSEMBLY HAVING SURFACE MOUNTED, INTERNALLY GROUNDED HYBRID CAPACITOR	6765780	Jul 20, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
CARBON-COATED TITANIUM CURRENT COLLECTORS FOR USE IN ALKALI METAL ELECTROCHEMICAL CELLS	6767670	Jul 27, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
MULTIPIN FEEDTHROUGH CONTAINING A GROUND PIN PASSING THROUGH AN INSULATOR AND DIRECTLY BRAZED TO A FERRULE	6768629	Jul 27, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
PIN TO THIN PLATE JOINT AND METHOD FOR MAKING THE JOINT	6781088	Aug 24, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
CONTROL OF CELL SWELLING BY THE PROPER CHOICE OF CARBON MONOFLUORIDE (CFX) CATHODE MATERIALS IN HIGH RATE DEFIBRILLATOR CELLS	6783888	Aug 31, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)

PROCESS FOR FABRICATING CONTINUOUSLY COATED ELECTRODES ON A POROUS CURRENT COLLECTOR AND CELL DESIGNS INCORPORATING SAID ELECTRODES	6790561	Sep 14, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
PREPARATION OF ESPILON-PHASE SILVER VANADIUM OXIDE FROM GAMMA-PHASE SVO STARTING MATERIAL	6797017	Sep 28, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
MATCHING CELLS FOR A BATTERY PACK	6801016	Oct 5, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
METHOD FOR PROVIDING A CURRENT COLLECTOR WITH BARE REGIONS TO FACILITATE WINDING	6828059	Dec 7, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
REMOTE MEDICAL IMAGE ANALYSIS	6829378	Dec 7, 2004	GREATBATCH LTD.
UNIVERSAL FAMILY SPACERS FOR A BATTERY ELECTRICAL PROTECTION DEVICE	6831827	Dec 14, 2004	GREATBATCH, LTD. (NEW YORK CORPORATION)
HIGHLY CONDUCTIVE AND STABLE NONAQUEOUS ELECTROLYTE FOR LITHIUM ELECTROCHEMICAL CELLS	6844115	Jan 18, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
DUAL ANODE CAPACITOR INTERCONNECT DESIGN	6850405	Feb 1, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
WIRE BONDING SURFACE FOR CONNECTING AN ELECTRICAL ENERGY STORAGE DEVICE TO AN IMPLANTABLE MEDICAL DEVICE	6857915	Feb 22, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
CAPACITOR INTERCONNECT DESIGN	6859353	Feb 22, 2005	GREATBATCH LTD.
PREPARATION FOR A	6872490	Mar 29, 2005	GREATBATCH, LTD.

CATHODE MATERIAL BY A TWO-STEP REDUCTION/OXIDATION SYNTHESIS PROCESS			(NEW YORK CORPORATION)
EMI FILTERD CONNECTORS USING INTERNALLY GROUNDED FEEDTHROUGH CAPACITORS	6882248	Apr 19, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
EMI FEEDTHROUGH FILTER TERMINAL ASSEMBLY UTILIZING HERMETIC SEAL FOR ELECTRICAL ATTACHMENT BETWEEN LEAD WIRES AND CAPACITOR	6888715	May 3, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
CURRENT COLLECTOR HAVING NON- SYMMETRIC GRID PATTERN CONVERGING AT A COMMON FOCAL POINT	6893777	May 17, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
PHOSPHATE ADDITIVES FOR NONAQUEOUS ELECTROLYTE RECHARGEABLE ELECTROCHEMICAL CELLS	6919141	Jul 19, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
INSTALLATION OF FILTER CAPACITORS INTO FEEDTHROUGHS FOR IMPLANTABLE MEDICAL DEVICES	6920673	Jul 26, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
ADJUSTABLE SUPPORT APPARATUS	6921226	Jul 26, 2005	GREATBATCH LTD.
SVO/CFX PARALLEL CELL DESIGN WITHIN THE SAME CASING	6926991	Aug 9, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
CONNECTION FOR JOINING A CURRENT COLLECTOR TO A TERMINAL PIN FOR A PRIMARY LITHIUM OR SECONDARY LITHIUM ION ELECTROCHEMICAL	6929881	Aug 16, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)

CELL INSULATIVE COMPONENT FOR AN ELECTROCHEMICAL CELL	6933074	Aug 23, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
METHOD FOR ELECTRODE DESIGN FOR IMPLANTABLE DEVICE APPLICATIONS THAT REQUIRE THE ELECTIVE REPLACEMENT INDICATOR (ERI)	6936379	Aug 30, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
ELECTROCHEMICAL CELL HAVING A MULTIPLATE ELECTRODE ASSEMBLY HOUSED IN AN IRREGULARLY SHAPED CASING	6946220	Sep 20, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
WOUND ELEMENT ELECTRODE ASSEMBLY DESIGN FOR USE IN PRISMATIC CASE ELECTROCHEMICAL CELLS	6951576	Oct 4, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
SINTERED VALVE METAL POWDERS FOR IMPLANTABLE CAPACITORS	6965510	Nov 15, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
CAPACITOR INTERCONNECT DESIGN	6967829	Nov 22, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
ONE PIECE HEADER ASSEMBLY OVER MOLDED TO AN IMPLANTABLE MEDICAL DEVICE	6975906	Dec 13, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
CONTOURED CASING FOR AN ELECTROCHEMICAL CELL	6977124	Dec 20, 2005	GREATBATCH, LTD. (NEW YORK CORPORATION)
HERMETICALLY SEALED COIN CELL	6984468	Jan 10, 2006	GREATBATCH LTD.
EMI FILTER CAPACITORS DESIGNED FOR DIRECT BODY FLUID EXPOSURE	6985347	Jan 10, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)

UNITARY LID FOR AN ELECTRICAL ENERGY STORAGE DEVICE	6986796	Jan 17, 2006	GREATBATCH LTD.
SPRING CONTACT SYSTEM FOR EMI FILTERED HERMETIC SEALS FOR ACTIVE IMPLANTABLE MEDICAL DEVICES	6987660	Jan 17, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
INDUCTOR CAPACITOR EMI FILTER FOR HUMAN IMPLANT APPLICATIONS	6999818	Feb 14, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
ELECTROCHEMICAL CELL CURRENT COLLECTOR HAVING OPENINGS OF PROGRESSIVELY LARGER SIZES CONVERGING AT A TAB	7000297	Feb 21, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
SAFETY INTRODUCER ASSEMBLY AND METHOD	7001396	Feb 21, 2006	GREATBATCH LTD.
NOBLE METALS COATED ON TITANIUM CURRENT COLLECTORS FOR USE IN NONAQUEOUS LI / CFX CELLS	7005214	Feb 28, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
FEEDTHROUGH TERMINAL ASSEMBLY WITH LEAD WIRE BONDING PAD FOR HUMAN IMPLANT APPLICATIONS	7012192	Mar 14, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
FLAT BACK CASE FOR AN ELECTROLYTIC CAPACITOR	7012799	Mar 14, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
DUAL CHEMISTRY ELECTRODE DESIGN	7018743	Mar 28, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
CONTAINER FOR STERILIZATION	7021485	Apr 4, 2006	GREATBATCH LTD.
METHOD FOR PROVIDING A HERMETICALLY SEALED COIN CELL	7022146	Apr 4, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
ELECTROCHEMICAL TREATMENT METHOD TO	7026791	Apr 11, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)

REDUCE VOLTAGE DELAY AND CELL RESISTANCE IN LITHIUM/SILVER VANADIUM OXIDE CELLS			CORPORATION)
CATHETER ASSEMBLY WITH SIDE WALL EXIT LUMEN AND METHOD THEREFOR	7029468	Apr 18, 2006	GREATBATCH LTD.
ORGANIC CYCLIC CARBONATE ADDITIVES FOR NONAQUEOUS ELECTROLYTE IN ALKALI METAL ELECTROCHEMICAL CELLS	7033707	Apr 25, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
FEEDTHROUGH FILTER CAPACITOR ASSEMBLY WITH INTERNALLY GROUNDED HERMETIC INSULATOR	7035076	Apr 25, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
DEVICE TO PROTECT AN ACTIVE IMPLANTABLE MEDICAL DEVICE FEEDTHROUGH CAPACITOR FROM STRAY LASER WELD STRIKES, AND RELATED MANUFACTURING PROCESS	7035077	Apr 25, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
EMI FILTER TERMINAL ASSEMBLY WITH WIRE BOND PADS FOR HUMAN IMPLANT APPLICATIONS	7038900	May 2, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
SILICATE ADDITIVES FOR CAPACITOR WORKING ELECTROLYTES	7038901	May 2, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
DOUBLE CURRENT COLLECTOR POSITIVE ELECTRODE FOR ALKALI METAL ION ELECTROCHEMICAL CELLS	7052804	May 30, 2006	GREATBATCH LTD.
METHOD FOR USING HIGH RATE LITHIUM ELECTROCHEMICAL	7056358	Jun 6, 2006	GREATBATCH LTD.

CELL CONTAINING SVO/CFCH/SVO SANDWICH CATHODES HAVING GAMMA-SVO AND MIXTURE OF GAMMA-SVO/EPSILON- SVO			
LITHIUM/CARBON MONOFLUORIDE (LI/CFX) ELECTROCHEMICAL CELL PROJECTION MODEL	7068036	Jun 27, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
ONE PIECE HEADER ASSEMBLY FOR AN IMPLANTABLE MEDICAL DEVICE	7069081	Jun 27, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
ELECTROLYTIC CAPACITOR CAPABLE OF INSERTION INTO THE VASCULATURE OF A PATIENT	7072171	Jul 4, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
CONTOURED CASING OF MATING CLAMSHELL PORTIONS FOR AN ELECTROCHEMICAL CELL	7074520	Jul 11, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
LOW POLARIZATION COATINGS FOR IMPLANTABLE ELECTRODES	7079903	Jul 18, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
MOLDED POLYMERIC CRADLE FOR CONTAINING AN ANODE IN AN ELECTROLYTIC CAPACITOR FROM HIGH SHOCK AND VIBRATION CONDITIONS	7085126	Aug 1, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
POLYMERIC RESTRAINTS FOR CONTAINING AN ANODE IN AN ELECTROLYTIC CAPACITOR FROM HIGH SHOCK AND VIBRATION CONDITIONS	7092242	Aug 15, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
METHOD FOR ESTIMATING LONG TERM	7092830	Aug 15, 2006	GREATBATCH, LTD. (NEW YORK

END-OF-LIFE CHARACTERISTICS USING SHORT-TERM DATA FOR LITHIUM/SILVER VANADIUM OXIDE CELLS			CORPORATION)
CONTOURED HOUSING FOR AN IMPLANTABLE MEDICAL DEVICE	7103415	Sep 5, 2006	GREATBATCH LTD.
EFFICIENT ELECTRODE ASSEMBLY DESIGN FOR CELLS WITH ALKALI METAL ANODES	7108942	Sep 19, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
EMI FILTER CAPACITORS DESIGNED FOR DIRECT BODY FLUID EXPOSURE	7113387	Sep 26, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
USE OF PAD PRINTING IN THE MANUFACTURE OF CAPACITORS	7116547	Oct 3, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
PREPARATION OF COPPER SILVER VANADIUM OXIDE FROM GAMMA-PHASE SVO STARTING MATERIAL	7118829	Oct 10, 2006	GREATBATCH LTD.
METHOD FOR PROVIDING A ONE-PIECE HEADER ASSEMBLY FOR HERMETIC BATTERY TERMINAL FEEDTHROUGH, FILL AND CLOSURE DESIGNS	7128765	Oct 31, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
REFORMING WET-TANTALUM CAPACITORS IN IMPLANTABLE MEDICAL DEVICES	7131988	Nov 7, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
HYBRID SPRING CONTACT SYSTEM FOR EMI FILTERED HERMETIC SEALS FOR ACTIVE IMPLANTABLE MEDICAL DEVICES	7136273	Nov 14, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
METHOD FOR MINIMIZING STRESS IN FEEDTHROUGH CAPACITOR FILTER ASSEMBLIES	7145076	Dec 5, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)

IMPLANTABLE ENERGY MANAGEMENT SYSTEM AND METHOD	7151378	Dec 19, 2006	GREATBATCH, LTD. (NEW YORK CORPORATION)
NANOTUBE COATINGS FOR IMPLANTABLE ELECTRODES	7162308	Jan 9, 2007	GREATBATCH, LTD. (NEW YORK CORPORATION)
ONE PIECE HEADER ASSEMBLY FOR AN IMPLANTABLE MEDICAL DEVICE	7167749	Jan 23, 2007	GREATBATCH, LTD. (NEW YORK CORPORATION)
METHOD OF MANUFACTURING A SHAPED TITANIUM ARTICLE	7168142	Jan 30, 2007	GREATBATCH, LTD. (NEW YORK CORPORATION)
REFORMING WET-TANTALUM CAPACITORS IN IMPLANTABLE DEFIBRILLATORS AND OTHER MEDICAL DEVICES	7171267	Jan 30, 2007	GREATBATCH, LTD. (NEW YORK CORPORATION)
PIN TO THIN PLATE JOINT AND METHOD FOR MAKING THE JOINT	7186049	Mar 6, 2007	GREATBATCH, LTD. (NEW YORK CORPORATION)
COATED ELECTRODE AND METHOD OF MAKING A COATED ELECTRODE	7194315	Mar 20, 2007	GREATBATCH, LTD. (NEW YORK CORPORATION)
FEEDTHROUGH FILTER CAPACITOR ASSEMBLY WITH INTERNALLY GROUNDED HERMETIC INSULATOR	7199995	Apr 3, 2007	GREATBATCH LTD.
	7227336	Jun 5, 2007	
USE OF POLY(ALKYLENE) CARBONATES IN THE MANUFACTURE OF VALVE METAL ANODES FOR ELECTROLYTIC CAPACITORS	7244279	Jul 17, 2007	GREATBATCH LTD.
PROCESS FOR FABRICATION OF LOW BASIS WEIGHT ELECTRODE ACTIVE BLANKS	7252797	Aug 7, 2007	GREATBATCH, LTD. (NEW YORK CORPORATION)
ENERGY DENSE	7271994	Sep 18, 2007	GREATBATCH LTD.

ELECTROLYTIC CAPACITOR			
PRIMARY ELECTROCHEMICAL CELL HAVING SCALLOPED ELECTRODES	7273674	Sep 25, 2007	GREATBATCH LTD.
PLASMA TREATMENT OF ANODIC OXIDES FOR ELECTROLYTIC CAPACITORS	7286336	Oct 23, 2007	GREATBATCH, LTD. (NEW YORK CORPORATION)
EMI FILTER TERMINAL ASSEMBLY WITH WIRE BOND PADS FOR HUMAN IMPLANT APPLICATIONS	7310216	Dec 18, 2007	GREATBATCH LTD.
FEEDTHROUGH CAPACITOR FILTER ASSEMBLIES WITH LAMINAR FLOW DELAMINATIONS FOR HELIUM LEAK DETECTION	7327553	Feb 5, 2008	GREATBATCH LTD.
BAND STOP FILTER EMPLOYING A CAPACITOR AND AN INDUCTOR TANK CIRCUIT TO ENHANCE MRI COMPATIBILITY OF ACTIVE IMPLANTABLE MEDICAL DEVICES	7363090	Apr 22, 2008	GREATBATCH, LTD.
WIRELESS FLUID PRESSURE SENSOR	7389695	Jun 24, 2008	ELECTROCHEM SOLUTIONS, INC.
PREVENTION OF LITHIUM DEPOSITION IN NONAQUEOUS ELECTROLYTE CELLS BY ELECTROLYTE-TO-CATHODE WEIGHT RATIO	7432001	Oct 7, 2008	GREATBATCH LTD.
INSULATOR DESIGN TO PREVENT LITHIUM CLUSTER BRIDGING	7482093	Jan 27, 2009	GREATBATCH LTD.
DUAL ANODE CAPACITOR WITH INTERNALLY CONNECTED ANODES	7483260	Jan 27, 2009	GREATBATCH LTD.

APPARATUS AND PROCESS FOR REDUCING THE SUSCEPTIBILITY OF ACTIVE IMPLANTABLE MEDICAL DEVICES TO MEDICAL PROCEDURES SUCH AS MAGNETIC RESONANCE IMAGING	7489495	Feb 10, 2009	GREATBATCH LTD.
MAGNETICALLY SHIELDED AIMD HOUSING WITH WINDOW FOR MAGNETICALLY ACTUATED SWITCH	7493167	Feb 17, 2009	GREATBATCH LTD.
DEFLECTABLE CATHETER STEERING AND LOCKING SYSTEM	7497853	Mar 3, 2009	GREATBATCH LTD.
SANDWICH ELECTRODE DESIGN HAVING RELATIVELY THIN CURRENT COLLECTORS	7531274	May 12, 2009	GREATBATCH LTD.
EMI FILTERS DESIGNED FOR DIRECT BODY FLUID EXPOSURE	7535693	May 19, 2009	GREATBATCH LTD.
ROTATABLE LEAD INTRODUCER	7544197	Jun 9, 2009	GREATBATCH LTD.
APPARATUS TO IMPROVE THE HIGH VOLTAGE FLASHOVER CHARACTERISTICS OF EMI FEEDTHROUGH FILTERS USED IN ACTIVE IMPLANTABLE MEDICAL DEVICES	7551963	Jun 23, 2009	GREATBATCH LTD.
PUSH-PULL WIRE ANCHOR	7553305	Jun 30, 2009	GREATBATCH LTD.
FEEDTHROUGH FILTER CAPACITOR ASSEMBLIES HAVING LOW COST TERMINAL PINS	7564674	Jul 21, 2009	GREATBATCH LTD.
SCREEN-PRINTED FILTER CAPACITORS FOR FILTERED FEEDTHROUGHS	7569452	Aug 4, 2009	GREATBATCH LTD.
ELECTRODE ACTIVE BLANKS AND METHODS OF MAKING	7572551	Aug 11, 2009	GREATBATCH LTD.

BATTERY CHARGER CONFIGURATION REDUCING THERMAL CONDUCTION	7576513	Aug 18, 2009	GREATBATCH LTD.
LOW VOLTAGE CUTOFF CIRCUIT FOR AN ELECTROCHEMICAL CELL	7586292	Sep 8, 2009	ELECTROCHEM SOLUTIONS, INC.
ELECTRICAL INSULATION SYSTEM AND METHOD FOR ELECTRICAL POWER STORAGE COMPONENT SEPARATION	7586736	Sep 8, 2009	GREATBATCH LTD.
BI-DIRECTIONAL CATHETER ASSEMBLY AND METHOD THEREFOR	7588555	Sep 15, 2009	GREATBATCH LTD.
ELECTROCHEMICAL CELL DESIGNS WITH ANODE PLATES AND CONNECTIONS WHICH FACILITATE HEAT DISSIPATION	7592097	Sep 22, 2009	GREATBATCH, LTD. (NEW YORK CORPORATION)
REDUNDANT BATTERY PROTECTION SYSTEM AND METHOD	7595610	Sep 29, 2009	GREATBATCH LTD.
LITHIUM/FLUORINATED CARBON (LI/CFX) ELECTROCHEMICAL CELL	7611805	Nov 3, 2009	GREATBATCH LTD.
SYSTEM FOR MONITORING THE PHYSIOLOGIC PARAMETERS OF PATIENTS WITH CONGESTIVE HEART FAILURE	7615010	Nov 10, 2009	INTEGRATED SENSING SYSTEMS, INC.
DEFLECTABLE SHEATH HANDLE ASSEMBLY AND METHOD THEREFOR	7615044	Nov 10, 2009	GREATBATCH LTD.
HERMETIC FEEDTHROUGH TERMINAL ASSEMBLY WITH WIRE BOND PADS FOR HUMAN IMPLANT APPLICATIONS	7623335	Nov 24, 2009	GREATBATCH LTD.

FEEDTHROUGH CAPACITOR HAVING REDUCED SELF RESONANCE INSERTION LOSS DIP	7623336	Nov 24, 2009	GREATBATCH LTD.
ONE-PIECE HEADER ASSEMBLY FOR AN IMPLANTABLE MEDICAL DEVICE AND METHODS FOR MAKING SAME	7630768	Dec 8, 2009	GREATBATCH LTD.
SELF FIXING SPINAL CORD STIMULATION LEAD AND DELIVERY SYSTEM	7640064	Dec 29, 2009	GREATBATCH LTD.
FILL PLUG FOR ELECTROCHEMICAL CELL	7645538	Jan 12, 2010	GREATBATCH, INC.
METHOD OF SELECTING REPLACEMENT INDICATING VOLTAGE FOR AN IMPLANTABLE ELECTROCHEMICAL CELL	7646170	Jan 12, 2010	GREATBATCH LTD.
DEFLECTABLE CATHETER STEERING AND LOCKING SYSTEM	7678074	Mar 16, 2010	GREATBATCH LTD.
ELECTROCHEMICAL CELL SUPPORTING A PROTECTIVE HOUSING FOR ELECTRICAL COMPONENTS	7688596	Mar 30, 2010	ELECTROCHEM SOLUTIONS, INC.
FREQUENCY SELECTIVE PASSIVE COMPONENT NETWORKS FOR IMPLANTABLE LEADS OF ACTIVE IMPLANTABLE MEDICAL DEVICES UTILIZING AN ENERGY DISSIPATING SURFACE	7689288	Mar 30, 2010	GREATBATCH LTD.
TANK FILTERS ADAPTABLE FOR PLACEMENT WITH A GUIDE WIRE, IN SERIES WITH THE LEAD WIRES OR CIRCUITS OF ACTIVE MEDICAL DEVICES TO	7702387	Apr 20, 2010	GREATBATCH LTD.

ENHANCE MRI COMPATIBILITY			
CONNECTION FOR A COILED LEAD TO AN ELECTRICAL CONTACT FOR AN IMPLANTABLE MEDICAL DEVICE	7702398	Apr 20, 2010	GREATBATCH LTD.
GUANIDINE DERIVATIVES AS CATIONS FOR AMBIENT TEMPERATURE MOLTEN SALES IN ELECTROCHEMICAL POWER SOURCES	7709158	May 4, 2010	ELECTROCHEM SOLUTIONS, INC.
FLAT SEALING OF ANODE/SEPARATOR ASSEMBLY FOR USE IN CAPACITORS	7710713	May 4, 2010	GREATBATCH LTD.
CONNECTION FOR A COILED LEAD TO AN ELECTRICAL CONTACT FOR AN IMPLANTABLE MEDICAL DEVICE	7715923	May 11, 2010	GREATBATCH LTD.
ELECTROCHEMICAL CELL HAVING A GALAXY WIND DESIGN	7718310	May 18, 2010	GREATBATCH LTD.
METAL VANADIUM OXIDE PARTICLES	7722787	May 25, 2010	GREATBATCH, LTD. (NEW YORK CORPORATION)
SELF-CENTERING CURRENT COLLECTOR FOR AN ELECTROCHEMICAL CELL	7722992	May 25, 2010	GREATBATCH LTD.
ANODIZING VALVE METALS BY SELF- ADJUSTED CURRENT AND POWER	7727372	Jun 1, 2010	GREATBATCH LTD.
HIGH EFFICIENCY NEUROSTIMULATION LEAD	7729781	Jun 1, 2010	GREATBATCH LTD.
ELECTROCHEMICAL CELL CURRENT COLLECTOR COMPRISING SOLID AREA FOR COATED FILM	7736802	Jun 15, 2010	GREATBATCH LTD.

MEASUREMENTS			
TERMINAL CONNECTOR FOR CONNECTING AN ELECTROCHEMICAL CELL TO A MEDICAL DEVICE	7749651	Jul 6, 2010	GREATBATCH LTD.
ONE PIECE HEADER ASSEMBLY FOR AN IMPLANTABLE MEDICAL DEVICE	7751893	Jul 6, 2010	GREATBATCH, LTD. (NEW YORK CORPORATION)
FREQUENCY SELECTIVE PASSIVE COMPONENT NETWORKS FOR IMPLANTABLE LEADS OF ACTIVE IMPLANTABLE MEDICAL DEVICES UTILIZING AN ENERGY DISSIPATING SURFACE	7751903	Jul 6, 2010	GREATBATCH LTD.
METHOD OF MAKING SILVER VANADIUM OXYFLUORIDES FOR NONAQUEOUS LITHIUM ELECTROCHEMICAL CELLS	7754111	Jul 13, 2010	GREATBATCH LTD.
APPARATUS AND PROCESS FOR REDUCING THE SUSCEPTABILITY OF ACTIVE IMPLANTABLE MEDICAL DEVICES TO MEDICAL PROCEDURES SUCH AS MAGNETIC RESONANCE IMAGING	7765005	Jul 27, 2010	GREATBATCH-SIERRA, INC.
METHOD OF USING CYCLIC PRESSURE TO INCREASE THE PLANARITY OF SVO/CURRENT COLLECTOR/CFX ELECTRODES FOR USE IN LITHIUM ELECTROCHEMICAL CELLS	7771497	Aug 10, 2010	GREATBATCH, INC.
ANODE-TO-CATHODE CAPACITY RATIOS FOR SVO/CFX HYBRID CATHODE	7776470	Aug 17, 2010	GREATBATCH LTD.

ELECTROCHEMICAL CELLS			
RFID DETECTION AND IDENTIFICATION SYSTEM FOR IMPLANTABLE MEDICAL LEAD SYSTEMS	7787958	Aug 31, 2010	GREATBATCH LTD.
FEEDTHROUGH FILTER TERMINAL ASSEMBLIES WITH BREATHABLE COMPONENTS TO FACILITATE LEAK TESTING	7797048	Sep 14, 2010	GREATBATCH LTD.
HYBRID DISCOIDAL/TUBULAR CAPACITOR	7804676	Sep 28, 2010	GREATBATCH LTD.
ELECTRICAL INSULATION SYSTEM AND METHOD FOR ELECTRICAL POWER STORAGE COMPONENT SEPARATION	7808772	Oct 5, 2010	GREATBATCH LTD.
FUNCTIONALLY GRADED COATINGS FOR LEAD WIRES IN MEDICAL IMPLANTABLE HERMETIC FEEDTHROUGH ASSEMBLIES	7812691	Oct 12, 2010	GREATBATCH LTD.
WET TANTALUM CAPACITOR WITH MULTIPLE ANODE CONNECTIONS	7813107	Oct 12, 2010	GREATBATCH LTD.
ELECTROCHEMICAL CELL ELECTRODE WITH IMPROVED PARTICLE-TO-PARTICLE CONTACT AND METHOD OF MANUFACTURING	7820328	Oct 26, 2010	GREATBATCH LTD.
WIRELESS FLUID PRESSURE SENSOR	7832277	Nov 16, 2010	ELECTROCHEM SOLUTIONS, INC.
TERMINAL CONNECTOR FOR CONNECTING A CELL TO A MEDICAL DEVICE	7842415	Nov 30, 2010	GREATBATCH LTD.
SYSTEMS AND METHODS FOR MAGNETIC-	7844319	Nov 30, 2010	GREATBATCH LTD.

RESONANCE-GUIDED INTERVENTIONAL PROCEDURES			
FIBER OPTIC ASSISTED MEDICAL LEAD	7844348	Nov 30, 2010	GREATBATCH LTD.
KEYED FLUID CONNECTOR AND FLUID DISPENSING SYSTEM	7849872	Dec 14, 2010	GREATBATCH LTD.
TANK FILTERS UTILIZING VERY LOW K MATERIALS, IN SERIES WITH LEAD WIRES OR CIRCUITS OF ACTIVE MEDICAL DEVICES TO ENHANCE MRI COMPATIBILITY	7853324	Dec 14, 2010	GREATBATCH LTD.
CYLINDRICAL BANDSTOP FILTERS FOR MEDICAL LEAD SYSTEMS	7853325	Dec 14, 2010	GREATBATCH LTD.
STACKABLE STORAGE CONTAINERS WITH CONNECTING LATCHES	7854340	Dec 21, 2010	GREATBATCH LTD.
SANDWICH CATHODE ELECTROCHEMICAL CELL WITH WOUND ELECTRODE ASSEMBLY	7855009	Dec 21, 2010	GREATBATCH LTD.
METHOD FOR PROVIDING AN ELECTROCHEMICAL CELL HAVING A POCKET SEPERATOR DESIGN	7867293	Jan 11, 2011	GREATBATCH LTD.
ELECTROCHEMICAL CELL HAVING A POCKET SEPARATOR DESIGN	7875379	Jan 25, 2011	GREATBATCH LTD.
METHOD OF FORMING VALVE METAL ANODE PELLETS FOR CAPACITORS USING FORCED CONVECTION OF LIQUID ELECTROLYTE DURING ANODIZATION	7879217	Feb 1, 2011	GREATBATCH LTD.
APPARATUS AND METHOD FOR FABRICATING CATHODE COLLECTORS FOR LITHIUM/OXYHALIDE ELECTROCHEMICAL	7882622	Feb 8, 2011	ELECTROCHEM SOLUTIONS, INC.

CELLS			
METHOD FOR INSERTING A LEAD ELECTRODE INTO BODY TISSUE USING A ROTATABLE LEAD INTRODUCER	7890192	Feb 15, 2011	GREATBATCH LTD.
MEDICAL LEAD SYSTEM UTILIZING ELECTROMAGNETIC BANDSTOP FILTERS	7899551	Mar 1, 2011	GREATBATCH LTD.
STACKABLE CONTAINMENT TRAYS AND CASES WITH SLIDE LATCHES	7905353	Mar 15, 2011	GREATBATCH LTD.
CONNECTABLE INSTRUMENT TRAYS FOR CREATING A MODULAR CASE	7909191	Mar 22, 2011	GREATBATCH LTD.
RFID DETECTION AND IDENTIFICATION SYSTEM FOR IMPLANTABLE MEDICAL DEVICES	7916013	Mar 29, 2011	GREATBATCH LTD.
PASSIVE ELECTRONIC NETWORK COMPONENTS DESIGNED FOR DIRECT BODY FLUID EXPOSURE	7917219	Mar 29, 2011	GREATBATCH LTD.
CAPACITOR AND INDUCTOR ELEMENTS PHYSICALLY DISPOSED IN SERIES WHOSE LUMPED PARAMETERS ARE ELECTRICALLY CONNECTED IN PARALLEL TO FORM A BANDSTOP FILTER	7920916	Apr 5, 2011	GREATBATCH LTD.
COUPLING DEVICE WITH CONFIGURABLE ACTUATOR	7926390	Apr 19, 2011	GREATBATCH LTD.
ROTATABLE LEAD INTRODUCER	7930040	Apr 19, 2011	GREATBATCH LTD.
MODULAR MULTICHANNEL MICROELECTRODE ARRAY AND METHODS OF MAKING SAME	7941202	May 10, 2011	GREATBATCH LTD.
TANK FILTERS PLACED	7945322	May 17, 2011	GREATBATCH, LTD.

IN SERIES WITH THE LEAD WIRES OR CIRCUITS OF ACTIVE MEDICAL DEVICES TO ENHANCE MRI COMPATIBILITY			
ARTICULATING HANDLE FOR A DEFLECTABLE CATHETER AND METHOD THEREFOR	7955314	Jun 7, 2011	GREATBATCH LTD.
SHIELDED THREE- TERMINAL FLAT- THROUGH EMI/ENERGY DISSIPATING FILTER	7957806	Jun 7, 2011	GREATBATCH LTD.
STIMULATION LEAD DESIGN AND METHOD OF MANUFACTURE	7957818	Jun 7, 2011	GREATBATCH LTD.
THERMO- ENCAPSULATING APPARATUS FOR PROVIDING A SEPARATOR ENVELOPING AN ELECTRODE OF AN ELECTRICAL ENERGY STORAGE DEVICE	7958922	Jun 14, 2011	GREATBATCH LTD.
SWITCHED DIVERTER CIRCUITS FOR MINIMIZING HEATING OF AN IMPLANTED LEAD IN A HIGH POWER ELECTROMAGNETIC FIELD ENVIRONMENT	7966075	Jun 21, 2011	GREATBATCH LTD.
LASER WELD PROCESS FOR SEAM WELDED ELECTROCHEMICAL DEVICES	7968817	Jun 28, 2011	GREATBATCH LTD.
VALVED INTRODUCER ASSEMBLY AND METHOD THEREFOR	7972307	Jul 5, 2011	GREATBATCH LTD.
ELECTRICALLY CONNECTING MULTIPLE CATHODES IN A CASE NEGATIVE MULTI- ANODE CAPACITOR	7983022	Jul 19, 2011	GREATBATCH LTD.
IMPLANTED LEAD	7983763	Jul 19, 2011	GREATBATCH LTD.

SLEEVE HAVING RFID TAG			
SPLITTABLE VALVED INTRODUCER APPARATUS	7993305	Aug 9, 2011	GREATBATCH LTD.
SYSTEM FOR TERMINATING ABANDONED IMPLANTED LEADS TO MINIMIZE HEATING IN HIGH POWER ELECTROMAGNETIC FIELD ENVIRONMENTS	8000801	Aug 16, 2011	GREATBATCH LTD.
BATTERY LID WITH INTEGRAL THICK BOSS SURROUNDING A TERMINAL HOLE	8003248	Aug 23, 2011	GREATBATCH LTD.
IN DIE TRANSFER APPARATUS	8006536	Aug 30, 2011	GREATBATCH LTD.
BI-DIRECTIONAL CATHETER ASSEMBLY AND METHOD THEREFOR	8007463	Aug 30, 2011	GREATBATCH LTD.
ELECTROLYTIC CAPACITORS WITH MULTIPLE ANODES AND ANODE LEAD CONFIGURATIONS THEREOF	8027149	Sep 27, 2011	GREATBATCH LTD.
DEFLECTABLE CATHETER STEERING AND LOCKING SYSTEM	8048026	Nov 1, 2011	GREATBATCH LTD.
STENT COATING FOR ELUTING MEDICATION	8048151	Nov 1, 2011	GREATBATCH LTD.
	8056207	Nov 15, 2011	
STENT COATING FOR ELUTING MEDICATION	8057543	Nov 15, 2011	GREATBATCH LTD.
HEADER OVER-MOLDED ON A FEEDTHROUGH ASSEMBLY FOR AN IMPLANTABLE DEVICE	8065009	Nov 22, 2011	GREATBATCH LTD.
STENT COATING FOR ELUTING MEDICATION	8066764	Nov 29, 2011	GREATBATCH LTD.
HYBRID BATTERY FOR USE OVER EXTENDED TEMPERATURE RANGE	8067108	Nov 29, 2011	ELECTROCHEM SOLUTIONS, INC.
INTERCONNECTIONS FOR	8081419	Dec 20, 2011	GREATBATCH LTD.

MULTIPLE CAPACITOR ANODE LEADS			
PERCUTANEOUS ELECTRODE ARRAY AND SYSTEM	8090450	Jan 3, 2012	GREATBATCH LTD.
RFID DETECTION AND IDENTIFICATION SYSTEM FOR IMPLANTABLE MEDICAL DEVICES	8093991	Jan 10, 2012	GREATBATCH LTD.
EMI SHIELDED CONDUIT ASSEMBLY FOR AN ACTIVE IMPLANTABLE MEDICAL DEVICE	8095224	Jan 10, 2012	GREATBATCH LTD.
INTRODUCER ASSEMBLY AND METHOD FOR FORMING AN INTRODUCER ASSEMBLY	8101091	Jan 24, 2012	GREATBATCH LTD.
METHOD FOR PROVIDING A HEADER ASSEMBLY FOR AN IMPLANTABLE MEDICAL DEVICE	8103348	Jan 24, 2012	GREATBATCH LTD.
	8108042	Jan 31, 2012	
BIODEGRADABLE SHROUD FOR A DILATOR/SHEATH ASSEMBLY	8109908	Feb 7, 2012	GREATBATCH LTD.
RFID DETECTION AND IDENTIFICATION SYSTEM INCLUDING AN RFID READER HAVING A LIMITED TRANSMIT TIME AND A TIME-OUT PERIOD TO PROTECT A MEDICAL DEVICE AGAINST RFID-ASSOCIATED ELECTROMAGNETIC INTERFERENCE	8115600	Feb 14, 2012	GREATBATCH LTD.
TANK FILTERS PLACED IN SERIES WITH THE LEAD WIRES OR CIRCUITS OF ACTIVE MEDICAL DEVICES TO ENHANCE MRI COMPATIBILITY	8116862	Feb 14, 2012	GREATBATCH LTD.
NONAQUEOUS, IONICALLY	8119276	Feb 21, 2012	ELECTROCHEM SOLUTIONS, INC.

CONTROL OF SILVER VANADIUM OXIDE SURFACE AREAS AS A MEANS OF CONTROLLING VOLTAGE DELAY AND RDC GROWTH IN AN ELECTROCHEMICAL CELL	8133614	Mar 13, 2012	GREATBATCH LTD.
IMPLANTABLE LEAD BANDSTOP FILTER EMPLOYING AN INDUCTIVE COIL WITH PARASITIC CAPACITANCE TO ENHANCE MRI COMPATIBILITY OF ACTIVE MEDICAL DEVICES	8145324	Mar 27, 2012	GREATBATCH LTD.
SANDWICH CATHODE ELECTROCHEMICAL CELL WITH WOUND ELECTRODE ASSEMBLY	8153293	Apr 10, 2012	GREATBATCH LTD.
METHOD OF USING CYCLIC PRESSURE TO INCREASE THE PRESSED DENSITY OF ELECTRODES FOR USE IN ELECTROCHEMICAL CELLS	8153304	Apr 10, 2012	GREATBATCH LTD.
MEDICAL LEAD SYSTEM UTILIZING ELECTROMAGNETIC BANDSTOP FILTERS	8155760	Apr 10, 2012	GREATBATCH LTD.
SHIELDED RF DISTANCE TELEMETRY PIN WIRING FOR ACTIVE IMPLANTABLE MEDICAL DEVICES	8160705	Apr 17, 2012	GREATBATCH LTD.
BRAIDED ELECTRICAL LEAD	8160719	Apr 17, 2012	GREATBATCH LTD.
CAPACITOR AND INDUCTOR ELEMENTS PHYSICALLY DISPOSED IN SERIES WHOSE LUMPED PARAMETERS	8175700	May 8, 2012	GREATBATCH LTD.

ARE ELECTRICALLY CONNECTED IN PARALLEL TO FORM A BANDSTOP FILTER			
ELECTROMAGNETIC INTERFERENCE FILTER AND METHOD FOR ATTACHING A LEAD AND/OR A FERRULE TO CAPACITOR ELECTRODES	8179658	May 15, 2012	GREATBATCH LTD.
MINIMALLY INVASIVE PHYSIOLOGIC PARAMETER RECORDER AND INTRODUCER SYSTEM	8180438	May 15, 2012	GREATBATCH LTD.
DERIVING PATIENT ACTIVITY INFORMATION FROM SENSED BODY ELECTRICAL INFORMATION	8180442	May 15, 2012	GREATBATCH LTD.
TANK FILTERS PLACED IN SERIES WITH THE LEAD WIRES OR CIRCUITS OF ACTIVE MEDICAL DEVICES TO ENHANCE MRI COMPATIBILITY	8180448	May 15, 2012	GREATBATCH LTD.
SENSING BIOLOGICAL DATA	8190246	May 29, 2012	GREATBATCH LTD.
HYBRID CATHODE DESIGN FOR AN ELECTROCHEMICAL CELL	8192867	Jun 5, 2012	GREATBATCH LTD.
SHIELDED THREE- TERMINAL FLAT- THROUGH EMI/ENERGY DISSIPATING FILTER	8195295	Jun 5, 2012	GREATBATCH LTD.
TANK FILTERS PLACED IN SERIES WITH THE LEAD WIRES OR CIRCUITS OF ACTIVE MEDICAL DEVICES TO ENHANCE MRI COMPATIBILITY	8200328	Jun 12, 2012	GREATBATCH LTD.
METHODOLOGY AND	8200342	Jun 12, 2012	GREATBATCH LTD.

APPARATUS TO TERMINATE ABANDONED ACTIVE IMPLANTABLE MEDICAL DEVICE LEADS			
CATHETER ASSEMBLY WITH SIDE WALL EXIT LUMEN AND METHOD THEREFOR	8206344	Jun 26, 2012	GREATBATCH LTD.
FREQUENCY SELECTIVE PASSIVE COMPONENT NETWORKS FOR ACTIVE IMPLANTABLE MEDICAL DEVICES UTILIZING AN ENERGY DISSIPATING SURFACE	8219208	Jul 10, 2012	GREATBATCH LTD.
GUIDE TUBE FOR AN IMPLANTABLE DEVICE SYSTEM	8224417	Jul 17, 2012	GREATBATCH LTD.
ELECTRICALLY ISOLATING ELECTRICAL COMPONENTS IN A MEDICAL ELECTRICAL LEAD WITH AN ACTIVE FIXATION ELECTRODE	8224440	Jul 17, 2012	GREATBATCH LTD.
MEDICAL LEAD SYSTEM UTILIZING ELECTROMAGNETIC BANDSTOP FILTERS	8224462	Jul 17, 2012	GREATBATCH LTD.
MULTILAYER HELICAL WAVE FILTER FOR MEDICAL THERAPEUTIC OR DIAGNOSTIC APPLICATIONS	8239041	Aug 7, 2012	GREATBATCH LTD.
METHOD FOR MAKING FLAT AND HIGH- DENSITY CATHODE FOR USE IN ELECTROCHEMICAL CELLS	8241788	Aug 14, 2012	GREATBATCH LTD.
SYSTEM AND METHOD TO MANUFACTURE AN IMPLANTABLE ELECTRODE	8241950	Aug 14, 2012	GREATBATCH LTD.
BAND STOP FILTER EMPLOYING A	8244370	Aug 14, 2012	GREATBATCH LTD.

CAPACITOR AND AN INDUCTOR TANK CIRCUIT TO ENHANCE MRI COMPATIBILITY OF ACTIVE MEDICAL DEVICES			
LOAD-CARRYING BODY FOR REDUCING TORSIONAL AND TENSILE LOADING ON ELECTRONIC COMPONENTS IN AN IMPLANTABLE MEDICAL ELECTRICAL LEAD	8244373	Aug 14, 2012	GREATBATCH LTD.
SPACERS FOR FIXING BATTERY CELLS WITHIN A BATTERY PACKAGE CASING AND ASSOCIATED SYSTEMS AND METHODS	8252441	Aug 28, 2012	GREATBATCH LTD.
MINIATURE HERMETICALLY SEALED RFID MICROELECTRONIC CHIP CONNECTED TO A BIOCOMPATIBLE RFID ANTENNA FOR USE IN CONJUNCTION WITH AN AIMD	8253555	Aug 28, 2012	GREATBATCH LTD.
IMPLANTABLE LEAD FOR AN ACTIVE MEDICAL DEVICE HAVING AN INDUCTOR DESIGN MINIMIZING EDDY CURRENT LOSSES	8260435	Sep 4, 2012	GREATBATCH LTD.
METHOD FOR COATING NOBLE METALS ON TITANIUM CURRENT COLLECTORS FOR USE IN NONAQUEOUS LI/CFX CELLS	8268466	Sep 18, 2012	GREATBATCH, LTD. (NEW YORK CORPORATION)
BAND STOP FILTER EMPLOYING A CAPACITOR AND AN INDUCTOR TANK CIRCUIT TO ENHANCE MRI COMPATIBILITY OF	8275466	Sep 25, 2012	GREATBATCH LTD.

ACTIVE MEDICAL DEVICES			
METHOD FOR IMPLANTING A MINIMALLY INVASIVE PHYSIOLOGIC PARAMETER RECORDER AND INTRODUCER SYSTEM	8280499	Oct 2, 2012	GREATBATCH LTD.
MODULAR BATTERY PACK	8288035	Oct 16, 2012	ELECTROCHEM SOLUTIONS, INC.
AIMD EXTERNAL PROGRAMMER INCORPORATING A MULTIFUNCTION RFID READER HAVING A LIMITED TRANSMIT TIME AND A TIME-OUT PERIOD	8299899	Oct 30, 2012	GREATBATCH LTD.
TANK FILTERS PLACED IN SERIES WITH THE LEAD WIRES OR CIRCUITS OF ACTIVE MEDICAL DEVICES TO ENHANCE MRI COMPATIBILITY	8301243	Oct 30, 2012	GREATBATCH LTD.
CROSS-BAND COMMUNICATIONS IN AN IMPLANTABLE DEVICE	8301254	Oct 30, 2012	GREATBATCH LTD.
BI-DIRECTIONAL SHEATH DEFLECTION MECHANISM	8308659	Nov 13, 2012	GREATBATCH LTD.
INTEGRATED TANK FILTER FOR A MEDICAL THERAPEUTIC DEVICE	8311628	Nov 13, 2012	GREATBATCH LTD.
VALVE METAL ANODE PELLETS FOR CAPACITORS FORMED USING FORCED CONVECTION OF LIQUID ELECTROLYTE DURING ANODIZATION	8313621	Nov 20, 2012	GREATBATCH LTD.
RFID-ENABLED AIMD PROGRAMMER SYSTEM FOR IDENTIFYING MRI COMPATIBILITY OF	8321032	Nov 27, 2012	GREATBATCH LTD.

IMPLANTED LEADS RFID DETECTION AND IDENTIFICATION SYSTEM FOR IMPLANTABLE MEDICAL LEAD SYSTEMS	8326435	Dec 4, 2012	GREATBATCH LTD.
NEURAL INTERFACE SYSTEM	8332046	Dec 11, 2012	GREATBATCH LTD.
MOLDED HEADER CONNECTED TO A MEDICAL DEVICE BY LATERAL DEFORMATION OF A SLEEVE/FEEDTHROUGH PIN SUB-ASSEMBLY	8346362	Jan 1, 2013	GREATBATCH LTD.
	8357122	Jan 22, 2013	
BANDSTOP FILTER EMPLOYING A CAPACITOR AND AN INDUCTOR TANK CIRCUIT TO ENHANCE MRI COMPATIBILITY OF ACTIVE MEDICAL DEVICES	8364283	Jan 29, 2013	GREATBATCH LTD.
STENT COATING FOR ELUTING MEDICATION	8367151	Feb 5, 2013	GREATBATCH LTD.
FEED-THROUGH CONNECTOR ASSEMBLY FOR IMPLANTABLE PULSE GENERATOR AND METHOD OF USE	8369951	Feb 5, 2013	GREATBATCH LTD.
CROSS-BAND COMMUNICATIONS IN AN IMPLANTABLE DEVICE	8391981	Mar 5, 2013	GREATBATCH LTD.
AUTOMOBILE KEYLESS ENTRY SYSTEM HAVING AN RFID INTERROGATOR	8410899	Apr 2, 2013	GREATBATCH LTD.
FEEDTHROUGH FLAT- THROUGH CAPACITOR	8422195	Apr 16, 2013	GREATBATCH LTD.
LOW INSERTION FORCE ELECTRICAL CONNECTOR FOR IMPLANTABLE MEDICAL DEVICES	8428724	Apr 23, 2013	GREATBATCH LTD.
SHIELDED THREE- TERMINAL FLAT-	8433410	Apr 30, 2013	GREATBATCH LTD.

THROUGH EMI/ENERGY DISSIPATING FILTER			
DISPOSABLE REAMER	8435243	May 7, 2013	GREATBATCH LTD.
PRE-SUTURED ANCHOR FOR IMPLANTABLE LEADS	8437846	May 7, 2013	GREATBATCH LTD.
SHIELDED NETWORK FOR AN ACTIVE MEDICAL DEVICE IMPLANTABLE LEAD	8437865	May 7, 2013	GREATBATCH LTD.
SATELLITE THERAPY DELIVERY SYSTEM FOR BRAIN NEUROMODULATION	8442644	May 14, 2013	GREATBATCH LTD.
ARTICULATING HANDLE FOR A DEFLECTABLE CATHETER AND METHOD THEREFOR	8444626	May 21, 2013	GREATBATCH LTD.
SWITCHED SAFETY PROTECTION CIRCUIT FOR AN AIMD SYSTEM DURING EXPOSURE TO HIGH POWER ELECTROMAGNETIC FIELDS	8447414	May 21, 2013	GREATBATCH LTD.
SMALL FOOTPRINT PORTABLE BATTERY CHARGING STATION	8450970	May 28, 2013	GREATBATCH LTD.
DISPOSABLE FLEX REAMER	8454608	Jun 4, 2013	GREATBATCH LTD.
SWITCHED DIVERTER CIRCUITS FOR MINIMIZING HEATING OF AN IMPLANTED LEAD AND/OR PROVIDING EMI PROTECTION IN A HIGH POWER ELECTROMAGNETIC FIELD ENVIRONMENT	8457760	Jun 4, 2013	GREATBATCH LTD.
TANK FILTERS PLACED IN SERIES WITH THE LEAD WIRES OR CIRCUITS OF ACTIVE MEDICAL DEVICES TO ENHANCE MRI COMPATIBILITY	8463375	Jun 11, 2013	GREATBATCH LTD.

DISPOSABLE NEUCLEOTOMY SHAVER	8465490	Jun 18, 2013	GREATBATCH LTD.
PROCESS FOR MANUFACTURING EMI FILTERS UTILIZING COUNTER-BORED CAPACITORS TO FACILITATE SOLDER RE- FLOW	8468664	Jun 25, 2013	GREATBATCH LTD.
LEAD IDENTIFICATION SYSTEM	8473074	Jun 25, 2013	GREATBATCH LTD.
AUTOMATED SEARCH TO IDENTIFY A LOCATION FOR ELECTRICAL STIMULATION TO TREAT A PATIENT	8483836	Jul 9, 2013	GREATBATCH LTD.
DUAL FUNCTION TUNED L-C INPUT TRAP PASSIVE EMI FILTER COMPONENT NETWORK FOR AN ACTIVE IMPLANTABLE MEDICAL DEVICE	8483840	Jul 9, 2013	GREATBATCH LTD.
ANCHOR FOR IMPLANTABLE MEDICAL DEVICE	8483845	Jul 9, 2013	GREATBATCH LTD.
FEED-THROUGH CONNECTOR ASSEMBLY FOR IMPLANTABLE PULSE GENERATOR AND METHOD OF USE	8494636	Jul 23, 2013	GREATBATCH LTD.
IMPLANTABLE ELECTRODE AND METHOD OF MAKING THE SAME	8498720	Jul 30, 2013	GREATBATCH LTD.
SWITCHED DIVERTER CIRCUITS FOR MINIMIZING HEATING OF AN IMPLANTED LEAD AND/OR PROVIDING EMI PROTECTION IN A HIGH POWER ELECTROMAGNETIC FIELD ENVIRONMENT	8509913	Aug 13, 2013	GREATBATCH LTD.
CURRENT STEERING NEUROSTIMULATOR DEVICE WITH	8515545	Aug 20, 2013	GREATBATCH LTD.

UNIDIRECTIONAL CURRENT SOURCES			
ANCHORING MECHANISM FOR AN IMPLANTABLE STIMULATION LEAD	8515558	Aug 20, 2013	GREATBATCH LTD.
INTRODUCER ASSEMBLY AND METHOD FOR FORMING AN INTRODUCER ASSEMBLY	8540675	Sep 24, 2013	GREATBATCH LTD.
	8540697	Sep 24, 2013	
SECONDARY HEADER FOR AN IMPLANTABLE MEDICAL DEVICE INCORPORATING AN ISO DF4 CONNECTOR AND CONNECTOR CAVITY AND/OR AN IS4 CONNECTOR AND CONNECTOR CAVITY	8543209	Sep 24, 2013	GREATBATCH LTD.
IMPLANTABLE LEAD WITH BRAIDED CONDUCTORS	8543223	Sep 24, 2013	GREATBATCH LTD.
FIBER OPTIC ASSISTED MEDICAL LEAD	8548603	Oct 1, 2013	GREATBATCH LTD.
LEAD BODY WITH INNER AND OUTER CO-AXIAL COILS	8560084	Oct 15, 2013	GREATBATCH LTD.
THREE-DIMENSIONAL SYSTEM OF ELECTRODE LEADS	8565894	Oct 22, 2013	GREATBATCH LTD.
ACTIVE CURRENT CONTROL USING THE ENCLOSURE OF AN IMPLANTED PULSE GENERATOR	8571667	Oct 29, 2013	GREATBATCH LTD.
HEADER EMBEDDED FILTER FOR IMPLANTABLE MEDICAL DEVICE	8577453	Nov 5, 2013	GREATBATCH LTD.
INSULATOR COMPONENT DESIGN FOR MAINTAINING ELECTRODE ASSEMBLY COMPRESSION IN PRISMATIC MEDICAL	8580439	Nov 12, 2013	GREATBATCH LTD.

CELLS			
RFID INTERROGATOR CONFIGURED FOR PROTECTION AGAINST ELECTROMAGNETIC INTERFERENCE OF A REMOTE DEVICE HAVING AN RFID TAG	8581694	Nov 12, 2013	GREATBATCH LTD.
TRANSIENT VOLTAGE/CURRENT PROTECTION SYSTEM FOR ELECTRONIC CIRCUITS ASSOCIATED WITH IMPLANTED LEADS	8600519	Dec 3, 2013	GREATBATCH LTD.
MINIMALLY INVASIVE METHODS FOR IMPLANTING A SACRAL STIMULATION LEAD	8634932	Jan 21, 2014	GREATBATCH LTD.
METALLIZATION BARRIER FOR A HERMETIC FEEDTHROUGH	8642887	Feb 4, 2014	GREATBATCH LTD.
LEAD WITH BRAIDED REINFORCEMENT	8644953	Feb 4, 2014	GREATBATCH LTD.
LASER BEAM BUTTON WELD OF DISSIMILAR MATERIALS	8648255	Feb 11, 2014	GREATBATCH LTD.
FULL PERIMETER LASER BEAM BUTTON WELD OF DISSIMILAR MATERIALS	8648265	Feb 11, 2014	GREATBATCH LTD.
VOLTAGE ACTIVATED 2ND LEVEL SAFETY CIRCUIT FOR PERMANENT ISOLATION	8649140	Feb 11, 2014	ELECTROCHEM SOLUTIONS, INC.
TANK FILTERS PLACED IN SERIES WITH THE LEAD WIRES OR CIRCUITS OF ACTIVE MEDICAL DEVICES TO ENHANCE MRI COMPATIBILITY	8649857	Feb 11, 2014	GREATBATCH LTD.
TEMPORARY STIMULATION LEAD WITH POLYMER ELECTRODES AND METHOD OF	8649878	Feb 11, 2014	GREATBATCH LTD.

MANUFACTURE			
CO-FIRED HERMETICALLY SEALED FEEDTHROUGH WITH ALUMINA SUBSTRATE AND PLATINUM FILLED VIA FOR AN ACTIVE IMPLANTABLE MEDICAL DEVICE	8653384	Feb 18, 2014	GREATBATCH LTD.
SYSTEM AND METHOD TO MANUFACTURE AN IMPLANTABLE ELECTRODE	8658465	Feb 25, 2014	GREATBATCH LTD.
MODULAR EMI FILTERED TERMINAL ASSEMBLY FOR AN ACTIVE IMPLANTABLE MEDICAL DEVICE	8659870	Feb 25, 2014	GREATBATCH LTD.
ELECTRONIC NETWORK COMPONENTS UTILIZING BIOCOMPATIBLE CONDUCTIVE ADHESIVES FOR DIRECT BODY FLUID EXPOSURE	8660645	Feb 25, 2014	GREATBATCH LTD.
CROSS-BAND COMMUNICATIONS IN AN IMPLANTABLE DEVICE	8660659	Feb 25, 2014	GREATBATCH LTD.
CONTAINMENT CASE WITH LATCHING HANDLE	8668111	Mar 11, 2014	GREATBATCH LTD.
IMPLANTABLE LEAD HAVING A SHIELDED BANDSTOP FILTER COMPRISING A SELF- RESONANT INDUCTOR FOR AN ACTIVE MEDICAL DEVICE	8670841	Mar 11, 2014	GREATBATCH LTD.
MULTI DUROMETER REINFORCED SUTURE SLEEVE	8676341	Mar 18, 2014	GREATBATCH LTD.
BRAIDED LEAD WITH EMBEDDED FIXATION STRUCTURES	8676347	Mar 18, 2014	GREATBATCH LTD.
LITHIUM/FLUORINATED	8685568	Apr 1, 2014	GREATBATCH LTD.

CARBON CELL FOR HIGH-RATE PULSATILE APPLICATIONS			
MULTI-DUROMETER REINFORCED SUTURE SLEEVE	8688232	Apr 1, 2014	GREATBATCH LTD
IONIZING RADIATION-PROTECTED ACTIVE IMPLANTABLE MEDICAL DEVICE	8694102	Apr 8, 2014	GREATBATCH LTD.
DEVICES AND METHODS FOR VISUALLY INDICATING THE ALIGNMENT OF A TRANSCUTANEOUS ENERGY TRANSFER DEVICE OVER AN IMPLANTED MEDICAL DEVICE	8700175	Apr 15, 2014	GREATBATCH LTD.
SYSTEM AND METHOD TO MANUFACTURE AN IMPLANTABLE ELECTRODE	8703537	Apr 22, 2014	GREATBATCH LTD.
ELECTROMAGNETIC SHIELD FOR A PASSIVE ELECTRONIC COMPONENT IN AN ACTIVE MEDICAL DEVICE IMPLANTABLE LEAD	8712544	Apr 29, 2014	GREATBATCH LTD.
TORQUE LIMITING MECHANISM WITH LOCK BUSHING	8714056	May 6, 2014	GREATBATCH LTD.
ADJUSTABLE WIRE LENGTH STYLET HANDLE	8721659	May 13, 2014	GREATBATCH LTD.
DIRECT RESISTANCE WELDING- SELF BRAZING OF ALUMINUM TO MOLYBDENUM PIN	8722238	May 13, 2014	GREATBATCH LTD.
STACKABLE STORAGE CONTAINERS WITH CONNECTING LATCHES	8733570	May 27, 2014	GREATBATCH LTD.
CONTACT ASSEMBLY FOR IMPLANTABLE PULSE GENERATOR AND	8738141	May 27, 2014	GREATBATCH LTD.

METHOD OF USE			
IMPLANTABLE LEAD WITH BRAIDED CONDUCTORS	8738153	May 27, 2014	GREATBATCH LTD.
ELECTRODE CURRENT COLLECTOR WITH STRESS-RELIEVING MESH STRUCTURE	8741487	Jun 3, 2014	GREATBATCH LTD.
CROSS-BAND COMMUNICATIONS IN AN IMPLANTABLE DEVICE	8744581	Jun 3, 2014	GREATBATCH LTD.
SWITCHED DIVERTER CIRCUITS FOR MINIMIZING HEATING OF AN IMPLANTED LEAD AND/OR PROVIDING EMI PROTECTION IN A HIGH POWER ELECTROMAGNETIC FIELD ENVIRONMENT	8751013	Jun 10, 2014	GREATBATCH LTD.
INTRODUCER HANDLE NOTCH DESIGN/CONCEPT	8753313	Jun 17, 2014	GREATBATCH LTD.
SYSTEM AND METHOD FOR USING CLINICIAN PROGRAMMER AND CLINICIAN PROGRAMMING DATA FOR INVENTORY AND MANUFACTURING PREDICTION AND CONTROL	8757485	Jun 24, 2014	GREATBATCH LTD.
ACTIVE CURRENT CONTROL USING THE ENCLOSURE OF AN IMPLANTED PULSE GENERATOR	8761892	Jun 24, 2014	GREATBATCH LTD.
RF ACTIVATED AIMD TELEMETRY TRANSCEIVER	8761895	Jun 24, 2014	GREATBATCH LTD.
METHOD AND SYSTEM OF GRAPHICAL REPRESENTATION OF LEAD CONNECTOR BLOCK AND IMPLANTABLE PULSE	8761897	Jun 24, 2014	GREATBATCH LTD.

GENERATORS ON A CLINICIAN PROGRAMMER			
PEPTIDE BASED ANTIMICROBIAL COATING	8765113	Jul 1, 2014	GREATBATCH LTD.
ROCKER MECHANISM	8777953	Jul 15, 2014	GREATBATCH LTD.
IDENTIFYING AN AREA FOR ELECTRICAL STIMULATION TO TREAT A PATIENT	8781592	Jul 15, 2014	GREATBATCH LTD.
MINIMALLY INVASIVE METHODS FOR IMPLANTING A SACRAL STIMULATION LEAD	8781603	Jul 15, 2014	GREATBATCH LTD.
MULTIPLEXER FOR SELECTION OF AN MRI COMPATIBLE BANDSTOP FILTER PLACED IN SERIES WITH A PARTICULAR THERAPY ELECTRODE OF AN ACTIVE IMPLANTABLE MEDICAL DEVICE	8788057	Jul 22, 2014	GREATBATCH LTD.
CATHETER FOR POSITIONING A LEAD IN THE VASCULATURE	8790362	Jul 29, 2014	GREATBATCH LTD.
IMPLANTABLE MEDICAL ASSEMBLY	8790819	Jul 29, 2014	GREATBATCH LTD.
SATELLITE THERAPY DELIVERY SYSTEM FOR BRAIN NEUROMODULATION	8792987	Jul 29, 2014	GREATBATCH LTD.
ELECTRICALLY IDENTIFIABLE ELECTRODE LEAD AND METHOD OF ELECTRICALLY IDENTIFYING AN ELECTRODE LEAD	8798768	Aug 5, 2014	GREATBATCH LTD.
METHOD OF MAKING A MODULAR MULTICHANNEL MICROELECTRODE ARRAY	8800140	Aug 12, 2014	GREATBATCH LTD.
GUIDE TUBE FOR AN	8805468	Aug 12, 2014	GREATBATCH LTD.

IMPLANTABLE DEVICE SYSTEM			
TEMPORARY INSULATOR FOR BATTERY PACKS AND ASSOCIATED SYSTEMS AND METHODS	8808892	Aug 19, 2014	GREATBATCH LTD.
MINIATURE HERMETICALLY SEALED RFID MICROELECTRONIC CHIP CONNECTED TO A BIOCOMPATIBLE RFID ANTENNA FOR USE IN CONJUNCTION WITH AN AIMD	8810405	Aug 19, 2014	GREATBATCH LTD.
SYSTEMS AND METHODS FOR THE IDENTIFICATION AND ASSOCIATION OF MEDICAL DEVICES	8812125	Aug 19, 2014	GREATBATCH LTD.
TEMPORARY STIMULATION LEAD WITH POLYMER ELECTRODES AND METHOD OF MANUFACTURE	8825177	Sep 2, 2014	GREATBATCH LTD.
WEDGE-LOCK BRACKET FIXATION	8827088	Sep 9, 2014	GREATBATCH LTD.
QUICK-LOAD CONNECTOR FOR A SURGICAL TOOL	8844942	Sep 30, 2014	GREATBATCH LTD.
ACTIVE IMPLANTABLE MEDICAL SYSTEM HAVING EMI SHIELDED LEAD	8849403	Sep 30, 2014	GREATBATCH LTD.
ANCHOR SLEEVE FOR IMPLANTABLE LEAD	8849418	Sep 30, 2014	GREATBATCH LTD.
CAPACITOR FOR AN ACTIVE IMPLANTABLE MEDICAL DEVICE (AIMD) FOR HANDLING HIGH RF POWER INDUCED IN AN IMPLANTED LEAD FROM AN EXTERNAL RF FIELD	8855768	Oct 7, 2014	GREATBATCH LTD.
CIRCUITS FOR MINIMIZING HEATING OF AN IMPLANTED LEAD	8855785	Oct 7, 2014	GREATBATCH LTD.

AND/OR PROVIDING EMI PROTECTION IN A HIGH POWER ELECTROMAGNETIC FIELD ENVIRONMENT			
INTERNALLY GROUNDED FLAT THROUGH FILTER WITH HERMETICALLY SEALED INSULATIVE BODY WITH INTERNAL GROUND PLATES	8868189	Oct 21, 2014	GREATBATCH LTD.
SYSTEM AND METHOD OF COMPRESSING MEDICAL MAPS FOR PULSE GENERATOR OR DATABASE STORAGE	8868199	Oct 21, 2014	GREATBATCH LTD.
FIBER OPTIC ASSISTED MEDICAL LEAD	8868210	Oct 21, 2014	GREATBATCH LTD.
WAVEGUIDE NEURAL INTERFACE DEVICE	8870857	Oct 28, 2014	GREATBATCH LTD.
SCREEN-LESS ANODE DESIGN CONCEPTS FOR LOW COST LITHIUM ELECTROCHEMICAL CELLS FOR USE IN IMPLANTABLE MEDICAL DEVICE APPLICATIONS	8871379	Oct 28, 2014	GREATBATCH LTD.
ARBITRARY WAVEFORM GENERATOR & NEURAL STIMULATION APPLICATION	8874219	Oct 28, 2014	GREATBATCH, LTD.
SELF FIXING SPINAL CORD STIMULATION PADDLE LEAD	8874235	Oct 28, 2014	GREATBATCH LTD.
DISPOSABLE CYLINDRICAL CUTTER	8876825	Nov 4, 2014	GREATBATCH LTD.
PATIENT ATTACHED BONDING STRAP FOR ENERGY DISSIPATION FROM A PROBE OR A CATHETER DURING MAGNETIC RESONANCE IMAGING	8882763	Nov 11, 2014	GREATBATCH LTD.
PRE-SUTURED ANCHOR FOR IMPLANTABLE LEADS	8886303	Nov 11, 2014	GREATBATCH LTD.

MULTI-DUROMETER REINFORCED SUTURE SLEEVE	8886338	Nov 11, 2014	GREATBATCH LTD.
BAND STOP FILTER EMPLOYING A CAPACITOR AND AN INDUCTOR TANK CIRCUIT TO ENHANCE MRI COMPATIBILITY OF ACTIVE MEDICAL DEVICES	8897887	Nov 25, 2014	GREATBATCH LTD.
CLINICIAN PROGRAMMING SYSTEM AND METHOD	8903496	Dec 2, 2014	GREATBATCH LTD.
IMPLANTABLE LEAD BANDSTOP FILTER EMPLOYING AN INDUCTIVE COIL WITH PARASITIC CAPACITANCE TO ENHANCE MRI COMPATIBILITY OF ACTIVE MEDICAL DEVICES	8903505	Dec 2, 2014	GREATBATCH LTD.
DEVELOPMENT OF MIXED BINDER SYSTEM FOR PRIMARY CELL CATHODES	8906549	Dec 9, 2014	GREATBATCH LTD.
IMPLANTABLE LEAD HAVING A SHIELDED BANDSTOP FILTER COMPRISING A SELF- RESONANT INDUCTOR FOR AN ACTIVE MEDICAL DEVICE	8918189	Dec 23, 2014	GREATBATCH LTD.
SELECTIVE PLATING FIXTURE	8920617	Dec 30, 2014	GREATBATCH LTD.
LOW INSERTION FORCE ELECTRICAL CONNECTOR FOR IMPLANTABLE MEDICAL DEVICES	8934974	Jan 13, 2015	GREATBATCH LTD.
MULTI-DUROMETER REINFORCED SUTURE SLEEVE	8934991	Jan 13, 2015	GREATBATCH LTD.
	8938309	Jan 20, 2015	

POLYVINYLPYRIDINE ADDITIVES FOR NONAQUEOUS ELECTROLYTES ACTIVATING LITHIUM RECHARGEABLE ELECTROCHEMICAL CELLS	8940443	Jan 27, 2015	GREATBATCH LTD.
SYSTEM AND METHOD FOR TESTING ELECTRICAL CIRCUITS USING A PHOTOELECTROCHEMIC AL EFFECT	8941390	Jan 27, 2015	GREATBATCH LTD.
MECHANICAL STABILITY OF THE BIOMETRIC COATING BY CROSS LINKING OF SURFACTANT POLYMER	8945664	Feb 3, 2015	GREATBATCH LTD.
METHOD FOR PRODUCING IMPLANTABLE ELECTRODE COATINGS WITH A PLURALITY OF MORPHOLOGIES	8948881	Feb 3, 2015	GREATBATCH LTD.
HYBRID CLUSTERED NEURAL INTERFACE SYSTEM	8954144	Feb 10, 2015	GREATBATCH LTD.
KEY FOB CONTROLLER FOR AN IMPLANTABLE NEUROSTIMULATOR	8954148	Feb 10, 2015	GREATBATCH LTD.
IMPLANTABLE DEVICE INCLUDING A RESORBABLE CARRIER	8958862	Feb 17, 2015	GREATBATCH LTD.
IMPLANTABLE NEURAL INTERFACE DEVICE WITH A DEFORMABLE CARRIER	8958890	Feb 17, 2015	GREATBATCH LTD.
REINFORCED SUTURE SLEEVE	8958891	Feb 17, 2015	GREATBATCH LTD.
IMPLANTABLE NEURAL INTERFACE DEVICE WITH A CONNECTOR HAVING A SLITTED DEFORMABLE SECTION	8972026	Mar 3, 2015	GREATBATCH LTD.
	8977355	Mar 10, 2015	

METHOD AND SYSTEM FOR ASSOCIATING PATIENT RECORDS WITH PULSE GENERATORS	8983616	Mar 17, 2015	GREATBATCH LTD.
TRANSSEPTAL NEEDLE APPARATUS	8986264	Mar 24, 2015	GREATBATCH LTD.
	8989870	Mar 24, 2015	
CHARGE BALANCING FOR ARBITRARY WAVEFORM GENERATOR & NEURAL STIMULATION APPLICATION	8996115	Mar 31, 2015	GREATBATCH LTD.
ARBITRARY WAVEFORM GENERATOR & NEURAL STIMULATION APPLICATION WITH SCALABLE WAVEFORM FEATURE	8996117	Mar 31, 2015	GREATBATCH LTD.
COMPOSITE RF CURRENT ATTENUATOR FOR A MEDICAL LEAD	8996126	Mar 31, 2015	GREATBATCH LTD.
DIVERSITY ANTENNAS FOR NEUROSTIMULATOR PROGRAMMING DEVICES	9002466	Apr 7, 2015	GREATBATCH LTD.
INDEPENDENTLY ACTUATABLE SWITCH FOR SELECTION OF AN MRI COMPATIBLE BANDSTOP FILTER PLACED IN SERIES WITH A PARTICULAR THERAPY ELECTRODE OF AN ACTIVE IMPLANTABLE MEDICAL DEVICE	9002471	Apr 7, 2015	GREATBATCH LTD.
LEAD BODY WITH INNER AND OUTER CO-AXIAL COILS	9002476	Apr 7, 2015	GREATBATCH LTD.
NEURAL INTERFACE SYSTEM WITH AN EDGE ARRAY	9008747	Apr 14, 2015	GREATBATCH LTD.
EMI FILTER EMPLOYING A SELF-RESONANT INDUCTOR BANDSTOP FILTER HAVING OPTIMUM INDUCTANCE AND CAPACITANCE	9008799	Apr 14, 2015	GREATBATCH LTD.

VALUES			
DISPOSABLE SURGICAL HEMISPHERICAL CUTTER FOR CONVEX AND CONCAVE SURFACES	9011442	Apr 21, 2015	GREATBATCH LTD.
RF FILTER FOR AN ACTIVE MEDICAL DEVICE (AMD) FOR HANDLING HIGH RF POWER INDUCED IN AN ASSOCIATED IMPLANTED LEAD FROM AN EXTERNAL RF FIELD	9014808	Apr 21, 2015	GREATBATCH LTD.
ANCHOR SLEEVE FOR IMPLANTABLE LEAD	9026227	May 5, 2015	GREATBATCH LTD.
CURRENT STEERING NEUROSTIMULATOR DEVICE WITH UNIDIRECTIONAL CURRENT SOURCES	9031664	May 12, 2015	GREATBATCH LTD.
DEVICES AND METHODS FOR VISUALLY INDICATING THE ALIGNMENT OF A TRANSCUTANEOUS ENERGY TRANSFER DEVICE OVER AN IMPLANTED MEDICAL DEVICE	9031666	May 12, 2015	GREATBATCH LTD.
ELECTROMAGNETIC SHIELD FOR A PASSIVE ELECTRONIC COMPONENT IN AN ACTIVE MEDICAL DEVICE IMPLANTABLE LEAD	9031670	May 12, 2015	GREATBATCH LTD.
LOW INSERTION FORCE ELECTRICAL CONNECTOR FOR IMPLANTABLE MEDICAL DEVICES	9037243	May 19, 2015	GREATBATCH LTD.
SWITCHED SAFETY PROTECTION CIRCUIT FOR AN AIMD SYSTEM DURING EXPOSURE TO HIGH POWER	9037258	May 19, 2015	GREATBATCH LTD.

ELECTROMAGNETIC FIELDS			
LOW LOSS BAND PASS FILTER FOR RF DISTANCE TELEMTRY PIN ANTENNAS OF ACTIVE IMPLANTABLE MEDICAL DEVICES	9042999	May 26, 2015	GREATBATCH LTD.
POSITIONING OF A MEDICAL DEVICE CONDUCTOR IN AN MRI ENVIRONMENT TO REDUCE RF INDUCED CURRENT	9061132	Jun 23, 2015	GREATBATCH LTD.
AN IMPLANTABLE LEAD WITH A BAND STOP FILTER HAVING A CAPACITOR IN PARALLEL WITH AN INDUCTOR EMBEDDED IN A DIELECTRIC BODY	9061139	Jun 23, 2015	GREATBATCH LTD.
MAGNETIC FIXTURE	9061400	Jun 23, 2015	GREATBATCH LTD.
EMI FILTERS UTILIZING COUNTER-BORED CAPACITORS TO FACILITATE SOLDER RE- FLOW	9064640	Jun 23, 2015	GREATBATCH LTD.
FEEDTHROUGH WIRE CONNECTOR FOR USE IN A MEDICAL DEVICE	9065224	Jun 23, 2015	GREATBATCH LTD.
LEAD SPACER TOOL	9067056	Jun 30, 2015	GREATBATCH LTD.
AUTOMATED SEARCH TO IDENTIFY A LOCATION FOR ELECTRICAL STIMULATION TO TREAT A PATIENT	9067074	Jun 30, 2015	GREATBATCH LTD.
SET SCREW APPARATUS	9068587	Jun 30, 2015	GREATBATCH LTD.
COMPOSITE RF CURRENT ATTENUATOR FOR A MEDICAL LEAD	9071221	Jun 30, 2015	GREATBATCH LTD.
SYSTEM AND METHOD OF ESTABLISHING A PROTOCOL FOR PROVIDING ELECTRICAL STIMULATION WITH A STIMULATION SYSTEM	9072903	Jul 7, 2015	GREATBATCH LTD.

TO TREAT A PATIENT IMPLANTABLE LEAD WITH BRAIDED CONDUCTORS	9084881	Jul 21, 2015	GREATBATCH LTD.
LEAD POSITIONING AND FINNED FIXATION SYSTEM	9089693	Jul 28, 2015	GREATBATCH LTD.
LEAD POSITIONING AND FIXATION SYSTEM	9095700	Aug 4, 2015	GREATBATCH LTD.
COMMUNICATION FOR IMPLANTABLE MEDICAL DEVICES	9098610	Aug 4, 2015	GREATBATCH LTD.
DISPOSABLE SURGICAL CUTTER FOR SHAPING THE HEAD OF A FEMUR	9101370	Aug 11, 2015	GREATBATCH LTD.
MEASURING LOAD IMPEDANCE WITH ACTIVE STIMULATION PULSES IN AN IMPLANTED PULSE GENERATOR	9101767	Aug 11, 2015	GREATBATCH LTD.
IMPLANTABLE CARDIOVERTER DEFIBRILLATOR DESIGNED FOR USE IN A MAGNETIC RESONANCE IMAGING ENVIRONMENT	9101782	Aug 11, 2015	GREATBATCH LTD.
DISPOSABLE SURGICAL HEMISPHERICAL CUTTER FOR CONVEX AND CONCAVE SURFACES	9107677	Aug 18, 2015	GREATBATCH LTD.
LOW IMPEDANCE OXIDE RESISTANT GROUNDED CAPACITOR FOR AN AIMD	9108066	Aug 18, 2015	GREATBATCH LTD.
BAND STOP FILTER EMPLOYING A CAPACITOR AND AN INDUCTOR TANK CIRCUIT TO ENHANCE MRI COMPATIBILITY OF ACTIVE MEDICAL DEVICES	9119968	Sep 1, 2015	GREATBATCH LTD.
DUAL GLASS TO METAL SEAL CELL	9123930	Sep 1, 2015	GREATBATCH LTD.
TILTED BLADE	9125670	Sep 8, 2015	GREATBATCH LTD.

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HEMISPHERICAL BONE CUTTER			
PATIENT HANDHELD DEVICE FOR USE WITH A SPINAL CORD STIMULATION SYSTEM	9126043	Sep 8, 2015	GREATBATCH LTD.

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