PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5720918

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| ADVANCED BIONICS, LLC | 11/30/2011 |

RECEIVING PARTY DATA

| Name: | Advanced Bionics AG |
|-----------------|-----------------------|
| Street Address: | Laubisruetistrasse 28 |
| City: | Staefa |
| State/Country: | SWITZERLAND |
| Postal Code: | CH-8712 |

PROPERTY NUMBERS Total: 15

| Property Type | Number |
|----------------|---------|
| Patent Number: | 7949412 |
| Patent Number: | 7155289 |
| Patent Number: | 7787957 |
| Patent Number: | 7916823 |
| Patent Number: | 7953491 |
| Patent Number: | 7107101 |
| Patent Number: | 7697992 |
| Patent Number: | 7603175 |
| Patent Number: | 6786860 |
| Patent Number: | 7953490 |
| Patent Number: | 8442642 |
| Patent Number: | 7167754 |
| Patent Number: | 8311649 |
| Patent Number: | 7515966 |
| Patent Number: | 7983758 |

CORRESPONDENCE DATA

505674111

Fax Number: (661)362-1966

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 661-362-1832

Email: janice.gainer@advancedbionics.com

Correspondent Name: ADVANCED BIONICS, LLC

Address Line 1: 28515 WESTINGHOUSE PLACE
Address Line 2: INTELLECTUAL PROPERTY DEPT.
Address Line 4: VALENCIA, CALIFORNIA 91355

NAME OF SUBMITTER: MARY ELIZABETH BUSH

SIGNATURE: /Liz Bush/

DATE SIGNED: 09/16/2019

Total Attachments: 16

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IP PURCHASE AGREEMENT

THIS IP PURCHASE AGREEMENT (this "Agreement") is made between Advanced Bionics AG ("AB AG") and Advanced Bionics, LLC ("AB LLC").

RECITALS

WHEREAS, AB LLC manufactures cochlear implants and owns patents, copyrights and know-how related thereto as further detailed in Appendix A ("IP");

WHEREAS, AB LLC is indirectly wholly owned by AB AG; and

WHEREAS, the managing member of AB LLC has determined that it is in the best interests of AB LLC to sell the IP to AB AG on the terms and conditions set forth herein and the board of directors of AB AG has determined that it is in the best interests of AB AG and its shareholders to purchase the IP on the terms and conditions set forth herein.

NOW, THEREFORE, in consideration of the mutual commitments and promises set forth below, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, AB LLC and AB AG hereby agree as follows:

AGREEMENT

- 1. <u>Sale and Purchase of IP</u>. AB LLC hereby sells to AB AG, and AB AG hereby purchases from AB LLC, the IP for an aggregate purchase price of USD 34,400,000 net of any taxes that may be applicable. The purchase price is to be settled by AB AG within 10 days upon receipt of a respective invoice from AB LLC. AB LLC, upon request, will execute and deliver any additional documents deemed by AB AG to be necessary or desirable to complete the sale, assignment and transfer of the IP purchased by AB AG hereby. As between the parties, all benefits and risks in relation to the IP is transferred to AB AG with effect as of November 30, 2011.
- 2. Representations and Warranties. AB LLC hereby represents and warrants to AB AG that (i) the IP is either owned by AB LLC, free and clear of all liens, encumbrances or rights of third parties of any kind, or that AB LLC co-owns the IP or has a transferrable right to use the IP as the case may be; (ii) AB LLC has full corporate power and authority to enter into this Agreement and to perform its obligations hereunder and that all necessary corporate proceedings have been taken to authorize the execution, delivery and performance of this Agreement; and (iii) this Agreement constitutes a valid and binding agreement of AB LLC and is enforceable against AB LLC in accordance with its terms, except as limited by applicable bankruptcy, insolvency, reorganization, moratorium and other laws of general application affecting enforcement of creditors' rights generally.
- 3. Representations and Warranties of AB AG. AB AG hereby represents and warrants to AB LLC that (i) AB AG has full corporate power and authority to enter into this Agreement and to perform its obligations hereunder and that all necessary corporate proceedings have been taken to authorize the execution, delivery and performance of this Agreement; and (ii) this Agreement constitutes a valid and binding agreement of AB AG and is enforceable against

AB AG in accordance with its terms, except as limited by applicable bankruptcy, insolvency, reorganization, moratorium and other laws of general application affecting enforcement of creditors' rights generally.

4. Miscellaneous.

- (a) This Agreement constitutes the entire agreement, written, oral and implied, between AB LLC and AB AG, and supersedes and replaces all prior negotiations, prior agreements, or proposed agreements regarding the subject matter therein.
- (b) This Agreement shall be governed by the laws of the Switzerland without regard to conflict of laws provisions.
- (c) In the event that any provision of this Agreement becomes or is declared by a court of competent jurisdiction to be illegal, unenforceable or void, this Agreement shall continue in full force and effect without said provision, which shall be replaced with an enforceable provision closest in intent and economic effect as the severed provision; provided that no such severability shall be effective if it materially changes the economic benefit of this Agreement to any party.
- (d) This Agreement may be executed in multiple counterparts, each of which shall be deemed to be an original and both of which together shall constitute one and the same instrument. Delivery of an executed counterpart of this Agreement by facsimile transmission shall be equally as effective as delivery of an executed hard copy of the same.
- (e) This Agreement may not be amended or modified in any respect, except by a writing duly executed by AB LLC and AB AG.
- (f) This Agreement shall not confer any rights or remedies upon any person or entity other than the parties and their respective successors and permitted assigns.

[Signature page follows]

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IN WITNESS WHEREOF, the parties have duly executed this Agreement as of the date first above written.

| ADVANC | ED BIONICS, LLC |
|--------|---------------------------------|
| By: | Model |
| Name: | Gerhand Rochilen |
| Title: | CEO |
| Date: | |
| | |
| By: | |
| Name: | Paolo Gregoriai |
| Title: | VR Tale 3 |
| Date: | W. Transport |
| | |
| ADVANC | CED BIONICS AG |
| | |
| By: | Rejo |
| Name: | Alessen New Terras |
| Title: | Divector Corporate Max |
| Date: | |
| | P Di |
| By: | VVJ |
| Name: | Patrick Badi |
| Title: | Directed Cornerelle Coul Allein |

Date:

Appendix A List and description of IP

1. Patents

All patents and patent applications listed in Schedule 4.13(a)(1) of the transaction documents delivered in connection with the merger of Omega Merger Sub, Inc. and Advanced Bionics Corporation ("Merger Agreement") as well as any patents and patent applications of AB LLC created after December 30, 2009 ("Closing Date").

2. Know-how

All information that is secret, significant and useful for the production and distribution of cochlear implants (externals and internals) and related accessories.

3. Copyrights, Mask Works, Domain Name Registrations

All copyrights, mask works and domain name registrations listed in Schedule 4.13(a)(1) of the Merger Agreement as well as all copyrights, mask works and domain name registrations created by AB LLC after the Closing Date.

| 4 | 28 05-00561 | 27 05-00561 | 26 05-00549 | 25 05-00549 | 24 05-00549 | 23 05-00544 | 22 05-00542 | 21 05-00542 | 20 05-00541 | 19 05-00538 | 18 05-00538 | 17 05-00538 | 16 05-00538 | 15 05-00528 | | | 12 05-00501 | _ | 10 05-00494 | 9 05-00494 | 8 05-00494 | 7 05-00470 | 6 05-00468 | 5 05-00463 | 4 05-00448 | ш | 2 05-00444 | 1 No. | , , , |
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| | US Reg | EPC Reg | US Reg | US Reg | US Reg | US Reg | US Reg | US Reg | US Reg | US Reg | US Reg | US Reg | US Reg | US Reg | | | | | US Reg | US Reg | EPC Reg | | US Reg | US Reg | US Reg | | | Cntry Type | |
| | | | Regular D | Regular D | | Regular O | | | | Regular D | | | | | | | | | Regular O | Regular O | Regular O | | Regular O | Regular C | | | ar | | |
| | ORG N | ORG PO | DIV Na | DIV Na | ORG Na | ORG Na | Cont Na | ORG Na | ORG Na | DIV Na | Cont Na | DIV | ORG Na | ORG Na | | Cont Na | | | ORG PO | ORG Na | ORG PO | CIP | ORG Na | CIP No | ORG Na | ORG Na | | Type T ₂ | 1 |
| | National | PCT/EPC | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | PCT | National | PCT/EPC | National | National | National | National | National | National | Filing Type | - |
| | Granted | Granted | Filed | Filed | Granted | Granted | Filed | Granted | Granted | Filed | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Filed | Granted | Granted | Granted | Granted | Granted | Granted | Status | 0 |
| | 09/823,271 | 1924495.3 | 12/057,911 | 12/057,891 | 10/459,040 | 10/763,843 | 12/250,512 | 10/651,653 | 09/975,042 | 12/430,894 | 11/346,067 | 10/684,863 | 09/866,096 | 10/301,026 | 09/811,065 | 10/863,563 | 09/785,629 | 09/483,415 | 09/979,804 | 09/569,696 | 928976 | 09/322,712 | 09/492,735 | 09/375,425 | 09/338,700 | 09/344,429 | 09/323,594 | Appl No. | - |
| | 3/30/2001 | 3/30/2001 | 3/28/2008 | 3/28/2008 | 6/11/2003 | 1/23/2004 | 10/13/2008 | 8/29/2003 | 10/9/2001 | 4/28/2009 | 2/2/2006 | 10/14/2003 | 5/25/2001 | 11/20/2002 | 3/16/2001 | 6/7/2004 | 2/16/2001 | 1/14/2000 | 11/13/2001 | 5/12/2000 | 5/12/2000 | 5/28/1999 | 1/27/2000 | 8/17/1999 | 6/23/1999 | 6/25/1999 | 6/1/1999 | Filing Date | |
| | 6,826,430 | 1267761 | | | 7,519,428 | 7,212,866 | | 7,496,406 | 6,745,077 | | 7,542,806 | 6,996,438 | 6,728,578 | 7,097,746 | 6,658,124 | 7,020,298 | 6,748,094 | 6,415,186 | 6,754,537 | 6,259,951 | | 6,289,247 | 6,321,118 | 6,309,410 | 6,181,969 | 6,195,585 | 6,208,882 | Patent No. | ļ |
| | 11/30/2004 | 11/10/2004 | | | 4/14/2009 | 5/1/2007 | | 2/24/2009 | 6/1/2004 | | 6/2/2009 | 2/7/2006 | 4/27/2004 | 8/29/2006 | 12/2/2003 | 3/28/2006 | 6/8/2004 | 7/2/2002 | 6/22/2004 | 7/10/2001 | | 9/11/2001 | 11/20/2001 | 10/30/2001 | 1/30/2001 | 2/27/2001 | 3/27/2001 | Issue Date | |
| | 5/30/2012 | | | | 10/14/2012 | 11/1/2010 | | 8/24/2012 | 12/1/2011 | | 12/2/2012 | 8/7/2013 | 10/27/2011 | 2/28/2010 | 6/2/2011 | 9/28/2013 | 12/8/2011 | 1/2/2010 | 12/22/2011 | 1/10/2013 | 5/31/2010 | 3/11/2013 | 5/20/2013 | 4/30/2013 | 7/30/2012 | 8/27/2012 | 9/27/2012 | Next Tax | |
| | 12/7/2021 | 3/30/2021 | | | 9/27/2024 | 3/12/2025 | | 11/20/2024 | 11/13/2022 | | 4/1/2025 | 5/25/2021 | 7/13/2022 | 7/11/2024 | 2/7/2022 | 2/16/2021 | 2/16/2021 | 1/14/2020 | 11/13/2021 | 5/12/2020 | | 2/18/2019 | 1/27/2020 | 8/26/2018 | 6/23/2019 | 6/25/2019 | 6/1/2019 | Expires | |
| High Contact Count Sub-Miniature Fully Implantable Cochlear | High Contact Count Sub-miniature Fully Implantable Cochlear Prosthesis | High Contact Count Sub-miniature Fully Implantable Cochlear Prosthesis | Dual-Range Compliance Voltage Supply for a Multi-Channel Stimulator | Dual-Range Compliance Voltage Supply for a Multi-Channel Stimulator | Dual-Range Compliance Voltage Supply for a Multi-Channel Stimulator | Implantable Neurostimulator Having Data Repeater for Long Range Control and Data Streaming | System and Method for Fitting a Cochlear Implant Sound Processor Using Alternative Signals | System and Method for Fitting a Cochlear Implant Sound 4 Processor Using Alternative Signals | Electronic Impedance Transformer for Inductively-Coupled Load Stabilization | Envelope-Based Amplitude Mapping For Cochlear Implant Stimulus | | | | Connector System for BTE Hearing Devices | | Hybrid Implantable Cochlear Stimulator Hearing Aid System | Implantable Cochlear Stimulator System Incorporating Combination Electrode/Transducer | Hybrid Implantable Cochlear Stimulator Hearing Aid System | Strategy Selector for Multichannel Cochlear Prosthesis | Method and Apparatus for Power Link Detection with Implantable Medical Devices | Cochlear Electrode With Drug Delivery Channel and Method of Making the Same | Programmable Current Output Stimulus Stage for Implantable Device | Remote Monitoring of Implantable Cochlear Stimulator | Stapedius Reflex Electrode and Connector | Title | |

PATENT

REEL: 050391 FRAME: 0312

Date Printed: 9/30/2009

SCHEDULE 4.13(a)(1) Owned IP (i) Patents and Patent Applications

Date Printed: 9/30/2009

| 57 | 56 | 55 | 54 | 53 | | 51 | 50 | 49 | 48 | 47 | 46 | 4 5 | 44 | 43 | 42 | 41 | 40 | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 | |
|---|---|---|---|--|---------------------------------------|--|--|--|--|--|--|--|--|--|--|---|------------------------|---|--|---|---|---|---|---|--|--|--|----------|
| 05-00628 | 05-00628 | 05-00626 | 05-00625 | 05-00620 | 05-00617 | 05-00615 | 05-00615 | 05-00611 | 05-00603 | 05-00591 | 05-00585 | 05-00585 | 05-00585 | 05-00584 | 05-00582 | 05-00576 | 05-00576 | 05-00571 | 05-00571 | 05-00571 | 05-00571 | 05-00571 | 05-00570 | 05-00566 | 05-00565 | 05-00565 | 05-00561 | A |
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| Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | D |
| Cont | ORG | ORG | ORG | ORG | ORG | Cont | ORG | ORG | ORG | ORG | DIV | DIV | ORG | ORG | ORG | ORG | ORG | DIV | DIV | CIP | DIV | ORG | ORG | ORG | CIP | ORG | Cont | ш |
| National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | П |
| Filed | Granted | Granted | Granted | Granted | Granted | Filed | Filed | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Filed | Filed | Filed | Filed | Granted | Granted | Granted | Granted | Granted | Filed | Granted | Granted | G |
| 12/040,888 | 10/675,375 | 10/741,410 | 10/647,372 | 10/651,651 | 10/702,565 | 12/328,270 | 10/741,411 | 09/733,736 | 10/651,652 | 09/876,882 | 10/999,778 | 10/999,748 | 09/981,252 | 09/766,290 | 10/833,427 | 11/121,700 | 11/121,756 | 12/334,455 | 12/334,453 | 11/469,820 | 11/469,758 | 10/819,611 | 09/844,024 | 09/854,420 | 11/532,899 | 10/418,984 | 11/234,506 | _ |
| 3/1/2008 | 9/30/2003 | 12/19/2003 | 8/25/2003 | 8/29/2003 | 11/5/2003 | 12/4/2008 | 12/19/2003 | 12/8/2000 | 8/29/2003 | 6/7/2001 | 11/30/2004 | 11/30/2004 | 10/16/2001 | 1/19/2001 | 4/28/2004 | 5/4/2005 | 5/4/2005 | 12/13/2008 | 12/13/2008 | 9/1/2006 | 9/1/2006 | 4/7/2004 | 4/27/2001 | 5/11/2001 | 9/18/2006 | 4/18/2003 | 9/23/2005 | |
| | 7,349,741 | 7,171,261 | 7,043,303 | 7,142,926 | 7,127,078 | | | 6,505,076 | 7,248,926 | 6,549,814 | 7,092,763 | 7,043,304 | 6,842,647 | 6,542,777 | 7,039,466 | | | | | 7,571,005 | 7,493,170 | 7,103,417 | 6,628,991 | 6,636,768 | | 7,110,822 | 7,444,185 | |
| | 3/25/2008 | 1/30/2007 | 5/9/2006 | 11/28/2006 | 10/24/2006 | | | 1/7/2003 | 7/24/2007 | 4/15/2003 | 8/15/2006 | 5/9/2006 | 1/11/2005 | 4/1/2003 | 5/2/2006 | | | | | 8/4/2009 | 2/17/2009 | 9/5/2006 | 9/30/2003 | 10/21/2003 | | 9/19/2006 | 10/28/2008 | _ |
| | 9/25/2011 | 7/30/2010 | 11/9/2009 | 5/28/2010 | 4/24/2010 | | | 7/7/2010 | 1/24/2011 | 10/15/2010 | 2/15/2010 | 11/9/2009 | 7/11/2012 | 10/1/2010 | 11/2/2009 | | | | | 2/4/2013 | 8/17/2012 | 3/5/2010 | 3/30/2011 | 4/21/2011 | | 3/19/2010 | 4/28/2012 | S |
| | 1/19/2025 | 7/21/2025 | 4/11/2024 | 1/26/2025 | 11/5/2023 | | | 4/17/2021 | 12/29/2024 | 6/7/2021 | 12/12/2021 | 10/16/2021 | 5/14/2023 | 6/1/2021 | 9/23/2024 | | | | | 2/20/2025 | 2/28/2026 | 3/23/2025 | 4/27/2021 | 6/16/2021 | 9/12/2024 | 9/12/2024 | 5/13/2021 | z |
| Cochlear Implant Sound Processor with Permanently Integrated Replenishable Power Source | Cochlear Implant Sound Processor with Permanently Integrated Replenishable Power Source | Forward Masking Method for Estimating Neural Response | Enhanced Methods for Determining Iso-Loudness Contours for Fitting Cochlear Implant Sound Processors | Quick Connect Earhook System for BTE Devices | Implanted Outer Ear Canal Hearing Aid | Shell for External Components of Hearing Aid Systems | Shell for External Components of Hearing Aid Systems | Water-Resistant, Wideband Microphone Subassembly | Status Indicator for Implantable Systems | Blade Electrode Array For Insertion Under Soft Tissue of Lateral Wall of Cochlea | Remote Control Unit for use with an Implantable Neural Stimulator System | Method of Controlling an Implantable Neural Stimulator | Implantable Neural Stimulator System Including Remote Control Unit for Use Therewith | Spiral Shield For a Flexible High-Q Implantable Inductively Coupled Device | Spatial Decimation Stimulation in an Implantable Neural Stimulator, Such as a Cochlear Implant | Methods of Converting a Behind-The-Ear Speech Processor Unit into a Body Worn Speech Processor Unit | Speech Processor Cases | Adaptive Place-Pitch Ranking Within a Multi-Channel Neural Stimulator | Adaptive System and Method for Place-Pitch Ranking a Multi- Channel Neural Stimulator | Adaptive Place-Pitch Ranking Procedure for Optimizing Performance of a Multi-Channel Neural Stimulator | Adaptive Place-Pitch Ranking Procedure for Optimizing Performance of a Multi-Channel Neural Stimulator | Adaptive Place-Pitch Ranking Procedure for Optimizing Performance of a Multi-Channel Neural Stimulator | Minimally-Invasive Access Into the Cochlea For Electrode Insertion And Fluid Delivery | Implantable Microphone System for Use with Cochlear Implants and Implantable Hearing Aids | Remote Status and Control Device for a Cochlear Implant System | Hemote Status and Control Device for a Cochlear Implant System | High Contact Count Sub-miniature Fully Implantable Cochlear Prosthesis | 0 |

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PATENT

| 86 | 85 | 84 | 83 | 82 22 | 8 | 88 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 | 63 | දි | <u> </u> | 66 | 59 | 58 | |
|---|--------------------------------|--|--|---|---|---|---|------------------|--|---|---|---|---|---|---|----------------------|----------------------|---------------------------------------|------------------------------------|------------|------------|----------------------|--------------------------------------|--|--|--|---|---|---|
| 05-00672 | 05-00670 | 05-00670 | 05-00670 | 05-00667 | 05-00667 | 05-00667 | 05-00667 | 05-00664 | 05-00663 | 05-00656 | 05-00656 | 05-00656 | 05-00656 | 05-00643 | 05-00642 | 05-00634 | 05-00634 | 05-00634 | 05-00634 | 05-00634 | 05-00634 | 05-00634 | 05-00633 | 05-00632 | 05-00632 | 05-00631 | 05-00630 | 05-00630 | A |
| _ | ω | N | _ | _ | _ | _ | _ | | 2 | 2 | _ | _ | _ | N | 2 | ω | 7 | 6 | 5 | 4 | ω | 2 | 2 | ω | N | 2 | ω | N | ū |
| EPC | SU | SU | ΑU | GB | DE | 뀨 | EPC | CA | SU | SU | SU | EPC | AU | SU | SU | SU | SU | SU | SN | SN | SN | SN | SN | SU | SU | SU | SU | SU | C |
| Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Prov. | Prov. | Regular | Regular | Regular | Regular | Regular | Regular | Regular | _ |
| | CIP | DIV | ORG | ORG | ORG | ORG | ORG | ORG | | Cont | | ORG | ORG | ORG | ORG | DIV | Cont | CIP | CIP | ORG | ORG | ORG | ORG | Cont | ORG | ORG | Cont | ORG | п |
| PCT/EPC | National | National | PCT | PCT/EPC | PCT/EPC | PCT/EPC | PCT/EPC | PCT | National | National | National | PCT/EPC | PCT | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | 7 |
| Filed | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Filed | Granted | Filed | Filed | Filed | Granted | Filed | Filed | Filed | Filed | Filed | Filed | Granted | Granted | Filed | Granted | Granted | Filed | Granted | ۵ |
| 3768935.3 | 10/346,482 | 10/324,183 | 2002364009 | 2757116.5 | 2757116.5 | 2757116.5 | 2757116.5 | 2381725 | 10/886,801 | 11/841,501 | 10/989,521 | 4811625.5 | 2004310690 | 10/783,291 | 10/819,609 | 12/546,500 | 12/546,494 | 12/398,058 | 12/397,982 | 61/113,708 | 61/113,675 | 10/823,880 | 10/741,409 | 11/830,846 | 10/731,050 | 10/771,819 | 11/697,605 | 10/698,098 | - |
| 11/13/2003 | 1/17/2003 | 12/20/2002 | 12/20/2002 | 8/13/2002 | 8/13/2002 | 8/13/2002 | 8/13/2002 | 9/18/2000 | 7/8/2004 | 8/20/2007 | 11/16/2004 | 11/18/2004 | 11/18/2004 | 2/19/2004 | 4/7/2004 | 8/24/2009 | 8/24/2009 | 3/4/2009 | 3/4/2009 | 11/12/2008 | 11/12/2008 | 4/14/2004 | 12/19/2003 | 7/31/2007 | 12/9/2003 | 2/4/2004 | 4/6/2007 | 10/31/2003 | ٥ |
| | 7,054,691 | 6,736,771 | 2002364009 | 1417001 | 60224677.6 | 1417001 | 1417001 | 2381725 | 7,317,944 | | 7,292,892 | | 2004310690 | | 7,149,583 | | | | | | | 7,599,508 | 7,283,877 | | 7,251,530 | 7,277,759 | | 7,206,640 | 7 |
| | 5/30/2006 | 5/18/2004 | 5/11/2007 | 1/16/2008 | 1/16/2008 | 1/16/2008 | 1/16/2008 | 1/22/2008 | 1/8/2008 | | 11/6/2007 | | | | 12/12/2006 | | | | | | | 10/6/2009 | 10/16/2007 | | 7/31/2007 | 10/2/2007 | | 4/17/2007 | |
| 11/30/2009 | 11/30/2009 | 11/18/2011 | 12/20/2009 | 8/31/2010 | 8/31/2010 | 8/31/2010 | | 9/18/2010 | 7/8/2011 | | 5/6/2011 | 11/30/2009 | 11/18/2009 | | 6/12/2010 | | | | | | | 4/6/2013 | 4/16/2011 | | 1/31/2011 | 4/2/2011 | | 10/17/2010 | 3 |
| | 5/27/2023 | 1/2/2022 | 12/20/2022 | 8/13/2022 | 8/13/2022 | 8/13/2022 | 8/13/2022 | 9/18/2020 | 6/15/2025 | | 4/1/2025 | | | | 6/25/2024 | | | | | 11/12/2009 | 11/12/2009 | 11/8/2025 | 2/1/2026 | | 6/25/2025 | 9/28/2025 | | 3/23/2025 | z |
| Method and System to Convey the Within-Channel Fine Structure with a Cochlear Implant | Partitioned Implantable System | Wideband Low-Noise Implantable Microphone Assembly | Wideband Low-Noise Implantable Microphone Assembly | Gradual Recruitment of Muscle/Neural Excitable Tissue Using High-Rate Electrical Stimulation Parameters | Gradual Recruitment of Muscle/Neural Excitable Tissue Using High-Rate Electrical Stimulation Parameters | Gradual Recruitment of Muscle/Neural Excitable Tissue Using High-Rate Electrical Stimulation Parameters | Gradual Recruitment of Muscle/Neural Excitable Tissue Using High-Rate Electrical Stimulation Parameters | Cochlear Implant | System and Method for Using a Multi-Contact Electrode to Stimulate the Cochlear Nerve or Other Body Tissue | Systems for Fitting a Cochlear Implant to a Patient | Methods and Systems for Fitting a Cochlear Implant to a Patient | Methods and Systems for Fitting a Cochlear Implant to a Patient | Methods and Systems for Fitting a Cochlear Implant to a Patient | Charge Normalization for Electrical Stimulation of Excitable Tissue to Facilitate the Comparison of Neural Responses to Behavioral Measurements Having Different Parameters | Method of Using Non-Simultaneous Stimulation to Represent the Within-Channel Fine Structure | Listening Device Cap | Listening Device Cap | Integrated Cochlear Implant Headpiece | Modular Speech Processor Headpiece | | | Listening Device Cap | Method of Measuring Neural Responses | Optimizing Pitch and Other Speech Stimuli Allocation in a Cochlear Implant | Optimizing Pitch and Other Speech Stimuli Allocation in a Cochlear Implant | Method of Rapid Neural Response Measurement without Amplitude Attenuation | Method and System for Generating a Cochlear Implant Program Using Multi-Electrode Stimulation to Elicit the Electrically-Evoked Compound Action | Method and System for Generating a Cochlear Implant Program Using Multi-Electrode Stimulation to Elicit the Electrically-Evoked Compound Action | |

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SCHEDULE 4.13(a)(1) Owned IP (i) Patents and Patent Applications

| 113 | 112 | 111 | 110 | 109 | 108 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 94 | 93 | 92 | 91 | 90 | _ | | 87 | |
|--|--|--|--|--|--|--|--|------------------------------|---|--|---|---|--|---|--|--|--|--|--|---|--|--|--|--|---|---|----------|
| 113 05-00745 | 05-00743 | 05-00743 | 110 05-00743 | 05-00743 | 05-00743 | 05-00742 | 05-00741 | 105 05-00737 | 104 05-00734 | 05-00733 | 05-00732 | 05-00730 | 05-00729 | 05-00698 | 05-00698 | 05-00698 | 05-00698 | 05-00680 | 05-00679 | 05-00677 | 05-00674 | 05-00673 | 05-00673 | 05-00673 | 05-00672 | 05-00672 | A |
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| CA | DE | SU | GB | 뀨 | EPC | SU | SU | SU | SU | S | SU | SU | SU | SU | SU | SU | SU | SU | AU | SU | SU | SU | SU | SU | SU | 유 | C |
| Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Utility Model | D |
| ORG | ORG | ORG | ORG | ORG | ORG | ORG | ORG | CPA | ORG | ORG | ORG | CIP | ORG | CIP | DIV | DIV | ORG | ORG | ORG | ORG | ORG | Cont | CIP | ORG | ORG | ORG | ш |
| National | PCT/EPC | National | PCT/EPC | PCT/EPC | PCT/EPC | National | National | National | National | National | National | National | National | National | National | National | National | National | PCT | National | National | National | National | National | National | PCT/EPC | П |
| Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Filed | Filed | Granted | Filed | Granted | Granted | Granted | Filed | Granted | Granted | Granted | Filed | G |
| 2,218,846 | 97930107.4 | 09/202,751 | 97930107.4 | 959943 | 97930107.4 | 09/375,462 | 08/456,141 | 08/951,893 | 08/516,758 | 08/388,193 | 08/807,534 | 08/625,513 | 08/319,580 | 11/341,066 | 11/341,831 | 11/341,806 | 10/209,054 | 11/089,171 | 2005304453 | 09/766,292 | 10/662,615 | 11/870,301 | 10/857,389 | 10/666,465 | 10/712,078 | DE60107062T2 | _ |
| 4/23/1996 | 6/19/1997 | 6/19/1997 | 6/19/1997 | 6/19/1997 | 6/19/1997 | 8/17/1999 | 5/31/1995 | 3/24/1999 | 8/18/1995 | 2/13/1995 | 2/28/1997 | 3/25/1996 | 10/7/1994 | 1/27/2006 | 1/27/2006 | 1/27/2006 | 7/31/2002 | 3/24/2005 | 11/7/2005 | 1/19/2001 | 9/15/2003 | 10/10/2007 | 5/28/2004 | 9/19/2003 | 11/13/2003 | 11/13/2003 | |
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| 4/23/2010 | 6/30/2010 | 6/5/2012 | 6/30/2010 | 6/30/2010 | | 10/10/2012 | | 3/28/2011 | | | 4/20/2010 | 10/14/2009 | | 2/7/2011 | | | 9/21/2013 | | 11/7/2010 | 11/6/2010 | 4/3/2010 | | 7/15/2011 | 7/1/2011 | 7/8/2011 | | S |
| 4/23/2016 | 6/19/2017 | 6/19/2017 | 6/19/2017 | 6/19/2017 | 6/19/2017 | 8/17/2019 | 5/31/2015 | 10/16/2017 | 8/18/2015 | 2/13/2015 | 2/28/2017 | 10/7/2014 | 10/7/2014 | 7/31/2022 | | | 3/31/2024 | | 11/7/2025 | 1/31/2021 | 11/6/2023 | | 2/5/2025 | 3/4/2025 | 5/15/2026 | | z |
| Multichannel Cochlear Prosthesis With Flexible Control of Stimulus Waveforms | Self-Adjusting Cochlear Implant System and Method for Fitting Same | Self-Adjusting Cochlear Implant System and Method for Fitting Same | Self-Adjusting Cochlear Implant System and Method for Fitting Same | Self-Adjusting Cochlear Implant System and Method for Fitting Same | Self-Adjusting Cochlear Implant System | Implantable Microphone System for use with Cochlear Implantable Hearing Aids | Programming of a Speech Processor For an Implantable Cochlear Stimulator | Implantable Electrode Arrays | Edge-Effect Electricals for inducing Spatially Controlled Distributions of Electrical Potentials in Volume Conductive Media | Failure Detection in Auditory Response Stimulators | Cochlear Stimulation System Employing Behind-The-Ear Speech Processor with Remote Control | Brazeless Ceramic-To-Metal Bonding For Use In Implantable Devices | Brazeless Ceramic-To-Metal Bond For Use In Implantable Devices | Systems and Methods for Providing Power to One or More Implantable Devices | Methods and Systems for Providing a Power Signal to an Implantable Device | Digitally Controlled RF Amplifier With Wide Dynamic Range Output | Digitally Controlled RF Amplifier With Wide Dynamic Range Output | Magnetic Field Sensor for Magnetically-Coupled Medical Implant Devices | Method and System of Matching Information from Cochlear Implants in Two Ears | Method for Rotatably Securing Headpiece To The Human Body | Method and System for Obtaining Stapedial Reflexes in Cochlear Implant Users Using Multiband Stimuli | Cochlear Implant Electrode and Method of Making Same | Cochlear Implant Electrode and Method of Making Same | Cochlear Implant Electrode and Method of Making Same | Method and System to Convey the Within-Channel Fine Structure with a Cochlear Implant | Method and System to Convey the Within-Channel Fine Structure with a Cochlear Implant | 0 |

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| 138 | | 136 | 135 | 134 | 133 | 132 | 131 | 130 | 129 | 128 | 127 | 126 | 125 | 124 | 123 | 122 | 121 | 120 | 119 | 118 | 117 | 116 | 115 | 114 | I |
|--|--|---|---|--|---|--|--|---|--|---|---|---|---|---|--|--------------------------------------|--|--|--|--|--|--|--|--------------|--|
| 05-00850 | 05-00844 | 136 05-00839 | 35 05-00829 | 134 05-00789-E | 05-00789 | 05-00789 | 131 05-00789 | 30 05-00789 | 129 05-00789 | 128 05-00789 | 05-00789 | 05-00789 | 125 05-00787 | 124 05-00784 | 05-00784 | 05-00777 | 21 05-00776 | 05-00775 | 05-00745 | 05-00745 | 05-00745 | 05-00745 | 05-00745 | 114 05-00745 | 7 |
| _ | _ | _ | _ | 12 | 13 | = | 10 | 9 | ω | 7 | 7 | 7 | _ | 2 | _ | _ | | | З | 2 | _ | _ | _ | _ | - |
| <u>v</u> 02 | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | EPC | CA | SU | SU | SU | SU | SU | SU | SU | SU | SU | GB | DE | EPC | , |
| Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | , |
| 22.02 | ORG | ORG | ORG | Cont | CIP | 유 | DIV | 유 | DIV | 유 | ORG | ORG | ORG | ₽V | ORG | ORG | ORG | ORG | CIP | 유 | ORG | ORG | ORG | ORG | |
| National | National | National | National | National | National | National | National | National | National | National | PCT/EPC | PCT | National | National | National | National | National | National | National | National | National | PCT/EPC | PCT/EPC | PCT/EPC | |
| Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Filed | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | |
| 09/353,236 | 09/312,158 | 09/376,882 | 09/280,179 | 10/635,768 | 09/300,800 | 09/259,199 | 09/945,304 | 09/375,424 | 09/346,879 | 09/247,734 | 99951652.9 | 2362478 | 09/371,725 | 09/519,015 | 09/140,035 | 09/140,033 | 09/189,737 | 08/932,565 | 09/322,711 | 08/945,661 | 08/429,749 | 96913206.7 | 96913206.7 | 96913206.7 | - |
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| 6,178,353 | 6,275,736 | 6,415,185 | 6,011,993 | 6,968,238 | 6,266,568 | 6,119,044 | 6,862,805 | 6,304,787 | 6,144,883 | 6,129,753 | | 2362478 | 6,249,704 | 6,604,283 | 6,125,302 | 6,070,105 | 6,073,050 | 5,876,425 | 6,219,580 | 6,002,966 | 5,601,617 | 823188 | 69614103.5 | 823188 | |
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| 10/3/2012 | 2/14/2013 | 1/2/2010 | 7/4/2011 | 5/22/2013 | 1/24/2013 | 3/12/2012 | 9/8/2012 | 4/16/2013 | 5/7/2012 | 4/10/2012 | 9/30/2010 | 9/28/2010 | 12/19/2012 | 2/12/2011 | 3/26/2012 | 11/30/2011 | 12/6/2011 | 9/2/2010 | 10/17/2012 | 6/14/2011 | | 4/30/2010 | 6/30/2010 | | |
| 8/18/2019 | 5/14/2019 | 8/18/2019 | 3/29/2019 | 11/3/2020 | 2/9/2019 | 2/9/2019 | 8/17/2019 | 2/9/2019 | 2/9/2019 | 8/26/2018 | | 9/28/2019 | 8/10/2019 | 8/26/2018 | 8/26/2018 | 8/26/2018 | 11/10/2018 | 9/19/2017 | 10/24/2017 | 4/26/2015 | 4/26/2015 | 4/23/2016 | 6/23/2016 | 11/22/2017 | |
| Laminated Magnet Keeper for Implant Device Power Transfer Circuit For Implanted Devices | Hair Clip Retention System for Headpiece of Cochlear Implant | Objective Programming and Operation of a Cochlear Implant Based on Measured Evoked Potentials that Precede the Stapedius Reflex | Method of Making Implanted Ceramic Case with Enhanced Ceramic Case Strength | Method for Inserting Cochlear Electrode and Insertion Tool for Use Therewith | Inflatable Cochlear Electrode Array and Method of Making the Same | Cochlear Electrode Array with Positioning Stylet | Method of Making a Cochlear Electrode Array Having Current- Focusing and Tissue-Treating Features | Cochlear Electrode Array Having Current-Focusing and Tissue- Treating Features | Method of Making A Cochlear Electrode Array with Electrode Contacts on Medial Side | Cochlear Electrode Array with Electrode Contacts on Medial Side | Cochlear Electrode Array with Electrode Contacts on Medial Side | Cochlear Electrode Array with Electrode Contacts on Medial Side | Low Voltage Fast Sequential Stimulation to Elicit Stochastic Response Patterns that Enhance the Effectiveness of a Cochlear Implant | Method of Making Precurved, Modiolar-Hugging Cochlear Electrode | Precurved, Modiolar-Hugging Cochlear Electrode and Method of Making Same | Modiolus-Hugging Cochlear Electrodes | Efficient Integrated RF Telemtry Transmitter for Use With Implantable Device | Power Control Loop For Implantable Tissue Stimulator | Multichannel Cochlear Prosthesis With Flexible Control of Stimulus Waveforms | Multichannel Cochlear Prosthesis With Flexible Control of Stimulus Waveforms | Multichannel Cochlear Prosthesis With Flexible Control of Stimulus Waveforms | Multichannel Cochlear Prosthesis With Flexible Control of Stimulus Waveforms | Multichannel Cochlear Prosthesis With Flexible Control of Stimulus Waveforms | | M. M. L. Company of the state o |

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|---|--|---|---|--|--|--|---|---|--|---|--|--|--|--|---|---|---|---|---|---|---|---|--|--|---|--|--|---|
| <u> </u> | 166 05-00941 | 05-00941 | 164 05-00941 | 163 05-00940 | 05-00936 | 05-00935 | 05-00930 | 05-00930 | 05-00930 | 05-00930 | 05-00870 | 05-00870 | 05-00863 | 05-00860 | 05-00858 | 05-00857 | 05-00855 | 149 05-00855 | 05-00855 | 05-00855 | 146 05-00855 | 05-00855 | 144 05-00855 | 143 05-00855 | 142 05-00855 | 141 05-00855 | 05-00855 | > |
| ω | N | _ | _ | _ | _ | | თ | 4 | ω | 2 | ω | _ | З | _ | _ | _ | N | N | _ | _ | _ | _ | _ | _ | _ | _ | _ | 0 |
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| DIV | DIV | ORG | ORG | ORG | ORG | ORG | Cont | DIV | DIV | ORG | ORG | ORG | CIP | ORG | ORG | ORG | 유 | DIV | ORG | ORG | ORG | ORG | ORG | ORG | ORG | ORG | ORG | - |
| National | National | National | PCT/EPC | National | National | National | National | National | National | National | PCT | PCT/EPC | National | National | National | National | National | PCT | National | PCT/EPC | PCT/EPC | National | PCT/EPC | PCT/EPC | PCT/EPC | National | PCT | - |
| Granted | Granted | Granted | Filed | Granted | Granted | Granted | Filed | Filed | Filed | Granted | Granted | Filed | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Granted | Filed | Granted | 9 |
| 10/823,879 | 10/731,049 | 09/927,130 | 2753443.7 | 10/192,987 | 10/116,464 | 10/088,194 | 11/839,441 | 11/839,435 | 11/839,427 | 10/218,615 | 09/979,800 | 930682 | 09/407,826 | 09/514,100 | 09/758,104 | 09/585,848 | 09/404,966 | 200227631 | 09/126,615 | 98938233.8 | 98938233.8 | 98938233.8 | 98938233.8 | 98938233.8 | 98938233.8 | 2297022 | 199886804 | - |
| 4/14/2004 | 12/9/2003 | 8/10/2001 | 8/8/2002 | 7/10/2002 | 4/3/2002 | 4/18/2002 | 8/15/2007 | 8/15/2007 | 8/15/2007 | 8/13/2002 | 11/13/2001 | 5/12/2000 | 9/28/1999 | 2/28/2000 | 1/10/2001 | 6/1/2000 | 9/24/1999 | 3/25/2002 | 7/31/1998 | 7/31/1998 | 7/31/1998 | 7/31/1998 | 7/31/1998 | 7/31/1998 | 7/31/1998 | 7/31/1998 | 7/31/1998 | |
| 7,167,572 | 7,003,876 | 6,775,389 | | 7,110,821 | 7,050,858 | 6,778,858 | | | | 7,292,891 | 6,889,094 | | 6,272,382 | 6,473,651 | 6,498,954 | 6,487,453 | 6,308,101 | 775343 | 6,067,474 | 999874 | 999874 | 999874 | 69826675.7 | 999874 | 999874 | | 753694 | |
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| 7/23/2010 | 8/28/2013 | 2/10/2012 | 8/31/2010 | 3/19/2010 | 11/23/2009 | 2/17/2012 | | | | 5/6/2011 | 11/3/2012 | 5/31/2010 | 2/7/2013 | 4/29/2010 | 6/24/2010 | 5/26/2010 | 4/23/2013 | 7/31/2010 | 11/23/2011 | 7/31/2010 | 7/31/2010 | 7/31/2010 | 7/31/2010 | 7/31/2010 | | 7/31/2010 | 7/31/2010 | |
| 11/3/2021 | 3/22/2022 | 8/10/2021 | | 3/28/2024 | 12/7/2023 | 6/5/2022 | | | | 8/13/2022 | 11/13/2021 | | 7/31/2018 | 2/28/2020 | 4/3/2021 | 6/1/2020 | 7/31/2018 | 7/31/2018 | 7/31/2018 | 7/31/2018 | 7/31/2018 | 7/31/2018 | 7/31/2018 | 7/31/2018 | 7/31/2018 | | 7/31/2018 | |
| In The Ear Auxiliary Microphone System for Behind The Ear Hearing Prosthetic In The Ear Auxiliary Microphone for Rehind The Ear Hearing | Method of Constructing an In The Ear Auxiliary Microphone to Behind The Ear Hearing Prosthetic | Ear Auxiliary Microphone for Behind The Ear Hearing Prosthetic | In the Ear Auxiliary Microphone for Hearing Prosthetic | Channel Interaction Cancellation Within a Multichannel Neural Stimulation System | Insertion Tool for Placement of Electrode System Inside the Cochlear Lumen | Cochlear Implant | BioNet for Bilateral Cochlear Implant Systems | Method for Establishing a Network in Bilateral Cochlear Implant Systems | Network Interface Module for Bilateral Cochlear Implant Systems | BioNet for Bilateral Cochlear Implant Systems | | Electrode Array for Hybrid Cochlear Stimulator | Fully Implantable Cochlear Implant System | Fluid Filled Microphone Balloon to be Implanted in the Middle Ear | Apex to Base Cochlear Implant Electrode | Electrode System For Ossified Cochlea | Fully Implantable Cochlear Implant System | Implantable Device With Improved Battery Recharging and Powering Configuration | Implantable Device With Improved Battery Recharging and Powering Configuration | Implantable Device With Improved Battery Recharging and Powering Configuration | Implantable Device With Improved Battery Recharging and Powering Configuration | Implantable Device With Improved Battery Recharging and Powering Configuration | Implantable Device With Improved Battery Recharging and Powering Configuration | Implantable Device With Improved Battery Recharging and Powering Configuration | Implantable Device With Improved Battery Recharging and Powering Configuration | Powering Configuration | Implantable Device With Improved Battery Hecharging and Powering Configuration | |
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9/29/2004 7/31/2010 7/31/2018 ORG PCT/EPC Granted 98938233.8 7/31/1998 69826675.7 9/29/2004 7/31/2010 7/31/2018 ORG National Granted 98938233.8 7/31/1998 999874 9/29/2004 7/31/2010 7/31/2018 ORG PCT/EPC Granted 98938233.8 7/31/1998 999874 9/29/2004 7/31/2010 7/31/2018 ORG PCT/EPC Granted 98938233.8 7/31/1998 999874 9/29/2004 7/31/2010 7/31/2018 DN PCT Granted 200227631 3/25/2002 7/5343 11/18/2004 7/31/2010 7/31/2018 DN National Granted 09/385,848 6/1/2000 6,487,453 11/26/2002 5/26/2010 6/1/2020 ORG National Granted 09/378,104 1/10/20/200 6,487,453 11/26/2002 4/29/2010 4/39/202 ORG | ORG PCT/EPC Granted 98938233.8 7/31/1998 99874 9/29/2004 7/31/2018 ORG PCT/EPC Granted 98938233.8 7/31/1998 99874 9/29/2004 7/31/2010 7/31/2018 ORG PCT/EPC Granted 98938233.8 7/31/1998 99874 7/31/2004 7/31/2010 7/31/2018 ORG National Granted 98938233.8 7/31/1998 99874 7/31/2004 7/31/2010 7/31/2018 ORG PCT/EPC Granted 98938233.8 7/31/1998 99874 9/29/2004 7/31/2010 7/31/2018 ORG PCT/EPC Granted 98938233.8 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| 202 | 201 | 200 | 199 | 198 | 197 | 196 | 195 | 194 | 193 | 192 | 191 | 190 | 189 | 188 | 187 | 186 | 185 | 184 | 183 | 182 | 181 | 180 | 179 | 178 | 177 | 176 | 175 | 174 | 173 | 172 | 171 | 170 | |
|---|--|---|--|----------------------------|--------------------|--------------------|--------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|-------------------------|--|---|---|---|---|---|---|-------------------------------|---|--------------------|--|---|---|---|---|------------------|--|--|---|---|
| 202 05-01251 | 201 05-01249 | 05-01244 | 05-00999 | 05-00994 | 05-00990 | 05-00990 | 05-00990 | 05-00977 | 05-00977 | 05-00977 | 05-00977 | 05-00977 | 05-00977 | 05-00975 | 05-00973 | 186 05-00973 | 185 05-00973 | 184 05-00971 | 183 05-00971 | 182 05-00971 | 181 05-00969 | 180 05-00963 | 05-00963 | 178 05-00963 | 177 05-00963 | 176 05-00956 | 175 05-00956 | 174 05-00956 | 173 05-00954 | 172 05-00941 | 171 05-00941 | 170 05-00941 | Þ |
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| SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | c |
| Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | _ |
| ORG | ORG | ORG | ORG | ORG | Cont | Cont | ORG | Cont | DIV | DIV | DIV | DIV | ORG | ORG | DIV | DIV | ORG | DIV | DIV | ORG | ORG | DIV | DIV | DΙV | ORG | ₽V | DIV | ORG | ORG | ₽V | ₽V | DIV | г |
| National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | - |
| Granted | Filed | Filed | Filed | Granted | Filed | Granted | Granted | Filed | Filed | Filed | Filed | Filed | Granted | Filed | Filed | Filed | Granted | Filed | Filed | Granted | Granted | Granted | Filed | Filed | Granted | Filed | Filed | Granted | Filed | Filed | Filed | Granted | G |
| 10/993,991 | 11/096,402 | 10/992,625 | 10/651,650 | 10/264,937 | 11/752,196 | 10/932,813 | 10/264,962 | 11/497,714 | 11/497,719 | 11/497,725 | 11/498,023 | 11/497,718 | 10/318,433 | 10/625,360 | 11/552,475 | 11/552,466 | 10/371,285 | 12/495,620 | 12/495,593 | 11/097,611 | 10/218,616 | 11/428,322 | 11/428,302 | 11/428,287 | 10/218,645 | 11/381,719 | 11/381,716 | 10/218,614 | 11/421,742 | 11/622,330 | 11/622,319 | 11/530,869 | _ |
| 11/19/2004 | 4/1/2005 | 11/17/2004 | 8/29/2003 | 10/3/2002 | 5/22/2007 | 9/1/2004 | 10/3/2002 | 8/2/2006 | 8/2/2006 | 8/2/2006 | 8/2/2006 | 8/2/2006 | 12/13/2002 | 7/23/2003 | 10/24/2006 | 10/24/2006 | 2/21/2003 | 6/30/2009 | 6/30/2009 | 3/31/2005 | 8/13/2002 | 6/30/2006 | 6/30/2006 | 6/30/2006 | 8/13/2002 | 5/4/2006 | 5/4/2006 | 8/13/2002 | 6/1/2006 | 1/11/2007 | 1/11/2007 | 9/11/2006 | ے |
| 7,167,754 | | | | 6,879,695 | | 7,224,815 | 6,786,860 | | | | | | 7,130,694 | | | | 7,136,706 | | | 7,561,920 | 7,107,101 | 7,574,265 | | | 7,076,308 | | | 7,155,289 | | | | 7,526,096 | 7 |
| 1/23/2007 | | | | 4/12/2005 | | 5/29/2007 | 9/7/2004 | | | | | | 10/31/2006 | | | | 11/14/2006 | | | 7/14/2009 | 9/12/2006 | 8/11/2009 | | | 7/11/2006 | | | 12/26/2006 | | | | 4/28/2009 | - |
| 7/23/2010 | | | | 10/12/2012 | | 11/29/2010 | 3/7/2012 | | | | | | 4/30/2010 | | | | 5/14/2010 | | | 1/14/2013 | 3/12/2010 | 2/11/2013 | | | 1/11/2010 | | | 6/26/2010 | | | | 10/28/2012 | 3 |
| 4/17/2025 | | | | 1/19/2023 | | 8/30/2023 | 10/3/2022 | | | | | | 1/18/2025 | | | | 7/10/2024 | | | 1/30/2027 | 1/9/2024 | 3/17/2023 | | | 7/26/2024 | | | 6/29/2024 | | 11/3/2021 | 11/3/2021 | 2/22/2022 | z |
| Low Power Inverted Alterphasic Stimulation in a Cochlear Implant | Methods and Apparatus for Cochlear Implant Signal Processing | Optimizing Pitch Allocation in a Cochlear Implant | Current Sensing Coil for Cochlear Implant Data Detection | Personal Sound Link Module | Hearing Aid Design | Hearing Aid Design | Novel Hearing Aid Design | Stimulation Channel Selection Methods | Systems for Selecting Stimulation Channels | Pulse Skipping Strategy | System and Method for Distributed Gain Control | Distributed Compression Amplitude Mapping for a Cochlear Stimulation System | Distributed Compression Amplitude Mapping for a Neural Stimulation System | Distributed Compression Amplitude Mapping for Cochlear Implants | Electric and Acoustic Stimulation Fitting Systems and Methods | Electric and Acoustic Stimulation Fitting Systems and Methods | Electric and Acoustic Stimulation Fitting Systems and Methods | Bionic Ear Programming System | Cochlear Implant and Simplified Method for Fitting Same | Bionic Ear Implant | Multichannel Cochlear Implant and Simplified Method for Fitting Same | Cochlear Implant and Simplified Method of Fitting | Auto-Referencing Mixed Mode Phase Locked Loop for Audio Playback Applications | Auto-Referencing Mixed-Mode Phase Locked Loop for Audio Playback Applications | Auto-Referencing Mixed Mode Phase Locked Loop for Audio Playback Applications | Coated Electrode | In The Ear Auxiliary Microphone System for Behind The Ear Hearing Prosthetic | In The Ear Auxiliary Microphone System for Behind The Ear Hearing Prosthetic | In The Ear Auxiliary Microphone for Behind The Ear Hearing Prosthetic | C |

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| 05-01298 | 05-01297 | 05-01296 | 05-01296 | 05-01296 | 05-01296 | 05-01296 | 05-01294 | 05-01292 | 05-01291 | 05-01290 | 05-01287 | 05-01287 | 05-01284 | 05-01279 | 05-01279 | 05-01277 | 05-01265 | 05-01258 | 05-01258 | 05-01257 | 05-01257 | 05-01256 | 05-01256 | 05-01255 | 05-01255 | 05-01254 | 05-01254 | Þ |
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| SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | SU | | C |
| Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | Regular | D |
| ORG | ORG | Cont | Cont | Cont | Cont | ORG | ORG | DIV | ORG | ORG | CIP | ORG | ORG | 유 | 유 | ORG | ORG | DIV | ORG | Cont | ORG | DIV | ORG | CIP | ORG | Cont | | т |
| National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | National | П |
| Granted | Granted | Filed | Filed | Filed | Filed | Granted | Filed | Filed | Filed | Filed | Filed | Granted | Filed | Filed | Filed | Filed | Filed | Filed | Filed | Filed | Granted | Filed | Granted | Filed | Granted | Filed | Granted | G |
| 11/080,935 | 11/080,196 | 12/418,478 | 12/418,473 | 12/418,471 | 12/418,428 | 11/080,214 | 11/262,055 | 12/437,861 | 11/122,648 | 11/058,848 | 11/744,640 | 11/134,658 | 11/138,146 | 11/379,779 | 11/379,777 | 11/261,432 | 11/387,206 | 12/491,593 | 11/008,869 | 12/414,262 | 10/992,390 | 11/765,395 | 11/003,155 | 11/845,673 | 10/981,944 | 12/244,082 | 11/016,604 | _ |
| 3/14/2005 | 3/14/2005 | 4/3/2009 | 4/3/2009 | 4/3/2009 | 4/3/2009 | 3/14/2005 | 10/28/2005 | 5/8/2009 | 5/5/2005 | 2/15/2005 | 5/4/2007 | 5/20/2005 | 5/26/2005 | 4/21/2006 | 4/21/2006 | 10/28/2005 | 3/23/2006 | 6/25/2009 | 12/9/2004 | 3/30/2009 | 11/17/2004 | 6/19/2007 | 12/3/2004 | 8/27/2007 | 11/5/2004 | 10/2/2008 | 12/16/2004 | ے |
| 7,426,414 | 7,496,405 | | | | | 7,515,966 | | | | | | 7,225,028 | | | | | | | | | 7,522,961 | | 7,242,985 | | 7,277,760 | | | _ |
| 9/16/2008 | 2/24/2009 | | | | | 4/7/2009 | | | | | | 5/29/2007 | | | | | | | | | 4/21/2009 | | 7/10/2007 | | 10/2/2007 | | 11/11/2008 | _ |
| 3/16/2012 | 8/24/2012 | | | | | 10/7/2012 | | | | | | 11/29/2010 | | | | | | | | | 10/21/2012 | | 1/10/2011 | | 4/2/2011 | | 5/11/2012 | 3 |
| 3/3/2026 | 10/12/2025 | | | | | 3/6/2027 | | | | | | 7/11/2025 | | | | | | | | | 9/28/2026 | | 5/24/2025 | | 9/27/2025 | | 8/8/2026 | z |
| Sound Processing and Stimulation Systems and Methods for Use with Cochlear Implant Devices | | Sound Processing and Stimulation Systems and Methods for Use with Cochlear Implant Devices | Sound Processing and Stimulation Systems and Methods for Use with Cochlear Implant Devices | Sound Processing and Stimulation Systems and Methods for Use with Cochlear Implant Devices | Sound Processing and Stimulation Systems and Methods for Use with Cochlear Implant Devices | Sound Processing and Stimulation Systems and Methods for Use with Cochlear Implant Devices | Optimizing Pitch Allocation in a Cochlear Stimulation System | Autonomous Autoprogram Cochlear Implant | FSK Telemetry for Cochlear Implant | Integrated Phase-Shift Power Control Transmitter for Use with Implantable Device and Method for Use of Same | Dual Cochlear/Vestibular Stimulator with Control Signals Derived from Motion and Speech Signals | Dual Cochlear/Vestibular Stimulator with Control Signals Derived from Motion and Speech Signals | Cochlear Lead | Cochlear Stimulation Device | Cochlear Stimulation Device | Hybrid Multi-Function Electrode Array | Cochlear Implant with Localized Fluid Transport | Processing Signals Representative of Sound Based on the Identity of an Input Element | Processing Signals Representative of Sound Based on the Identity of an Input Element | Inner Hair Cell Stimulation Model for the Use by an Intra- Cochlear Implant | Inner Hair Cell Stimulation Model for the Use by an Intra- Cochlear Implant | Outer Hair Cell Stimulation Model for Use by an Intra-Cochlear Implant | | Encoding Fine Time Structure in Presence of Substantial Interaction Across an Electrode Array | | Estimating Flap Thickness for Cochlear Implants | Estimating Flap Thickness for Cochlear Implants | 0 |
| | 1 US Regular ORG National Granted 11/080,935 3/14/2005 7,426,414 9/16/2008 3/16/2012 3/3/2026 | 05-01297 1 US Regular ORG National Granted 11/080,196 3/14/2005 7,496,405 2/24/2009 8/24/2012 10/12/2025 05-01298 1 US Regular ORG National Granted 11/080,935 3/14/2005 7,426,414 9/16/2008 3/16/2012 3/3/2026 | 05-01296 5 US Regular Cont National Filed 12/418,478 4/3/2009 05-01297 1 US Regular ORG National Granted 11/080,196 3/14/2005 7,496,405 2/24/2009 8/24/2012 10/12/2025 05-01298 1 US Regular ORG National Granted 11/080,935 3/14/2005 7,426,414 9/16/2008 3/16/2012 3/3/2026 | 05-01296 4 US Regular Cont National Filed 12/418,473 4/3/2009 05-01296 5 US Regular Cont National Filed 12/418,478 4/3/2009 05-01297 1 US Regular ORG National Granted 11/080,196 3/14/2005 7,496,405 2/24/2009 8/24/2012 10/12/2025 05-01298 1 US Regular ORG National Granted 11/080,935 3/14/2005 7,426,414 9/16/2008 3/16/2012 3/3/2026 | 05-01296 3 US Regular Cont National Filed 12/418,471 4/3/2009 4/3/2009 US Regular Cont National Filed 12/418,473 4/3/2009 US Hegular Cont National Filed 12/418,478 4/3/2009 US Regular Cont National Filed 12/418,478 4/3/2009 US 1/2/2025 US Regular Cont National Granted 11/080,196 3/14/2005 7,496,405 2/24/2009 8/24/2012 10/12/2025 05-01298 1 US Regular ORG National Granted 11/080,935 3/14/2005 7,426,414 9/16/2008 3/16/2012 3/3/2026 | 05-01296 2 US Regular Cont National Filed 12/418,428 4/3/2009 4/3/2009 US Regular Cont National Filed 12/418,471 4/3/2009 US Hegular Cont National Filed 12/418,473 4/3/2009 US Hegular Cont National Filed 12/418,473 4/3/2009 US Hegular Cont National Filed 12/418,478 4/3/2009 7,496,405 2/24/2009 8/24/2012 10/12/2025 05-01297 1 US Regular ORG National Granted 11/080,196 3/14/2005 7,496,405 2/24/2009 8/24/2012 10/12/2025 05-01298 1 US Regular ORG National | 05-01296 1 US Regular ORG National Granted 11/080,214 3/14/2005 7,515,966 4/7/2009 10/7/2012 3/6/2027 05-01296 2 US Regular Cont National Filed 12/418,428 4/3/2009 4/3/2009 4/7/2009 5/7/2012 </td <td>05-01294 1 US Regular ORG National Filed 11/262,055 10/28/2005 10/28/2005 4/7/2009 10/7/2012 3/6/2027 05-01296 1 US Regular Cont National Filed 12/418,428 4/3/2009 7,515,966 4/7/2009 10/7/2012 3/6/2027 05-01296 2 US Regular Cont National Filed 12/418,428 4/3/2009 4/3/2009 5/5</td> <td>05-01292 2 US Regular DIV National Filed 12/437,861 5/8/2009 5/8/2009 4 1 US Regular ORG National Filed 11/262,055 10/28/2005 4/7/2009 10/7/2012 3/6/2027 05-01296 1 US Regular Cont National Filed 12/418,428 4/3/2009 4/7/2009 10/7/2012 3/6/2027 05-01296 2 US Regular Cont National Filed 12/418,428 4/3/2009 4/7/2009 10/7/2012 3/6/2027 05-01296 3 US Regular Cont National Filed 12/418,471 4/3/2009 4/7/2009 10/7/2012 3/6/2027 05-01296 4 US Regular Cont National Filed 12/418,473 4/3/2009 4/7/2009 4/7/2009 4/7/2009 4/7/2009 4/7/2009 4/7/2009 4/7/2009 4/7/2009 4/7/2009 4/7/2009 4/7/2009 4/7/2009 4/7/2009<!--</td--><td>05-01291 1 US Regular ORG National Filed 11/122,648 5/5/2005 4 4 5/5/2005 4 4 4 5/5/2005 4</td><td>05-01290 1 US Regular ORG National Filed 11/058,848 2/15/2005 <td< td=""><td>05-01287 3 US Regular CIP National Filed 11/744,640 5/4/2007 4/2007<td>05-01287 2 US Regular Regular ORG National National Regular Filed 11/134,658 5/20/2005 7,225,028 5/29/2007 11/29/2010 7/11/2025 05-01290 1 US Regular ORG National Filed 11/058,848 2/15/2005</td><td>05-01284 2 US Regular ORG National Filed 11/138,146 5/26/2005 7,225,028 5/29/2007 11/29/2010 7/11/2025 05-01287 2 US Regular ORG National Filed 11/134,648 5/20/2005 7,225,028 5/29/2007 11/29/2010 7/11/2025 05-01290 1 US Regular ORG National Filed 11/724,640 5/4/2007 US Sepular ORG National Filed 11/724,640 5/4/2005 US Sepular ORG National Filed 11/724,640 5/4/2005 US Sepular ORG National Filed 11/725,848 5/5/2005 US 4/7/2005 US Sepular ORG National Filed 11/262,055 10/28/2005 US 4/7/2009 10/7/2012 3/6/2027 05-01296 1 US Regular Cont National Filed 12/418,473 4/3/2009 7,515,966 4/7/2009 10/7/2012</td></td></td<><td>05-01279 4 US 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11/29/2010 7/11/2025 05-01287 1 US Regular ORG National Filed 11/243,688</td><td>05-01288 2 US Regular Port National Filed 12/491,593 6/25/2009 4 4 4/32/2006 4 4/32/2006 4 4/32/2006 4 4/32/2006 4 4 4/32/2006 4 4 4 4 4 4/32/2006 4 2 4 4</td><td>05-01288 1 US Regular ORG National Filed 11/008,869 12/9/2004 </td><td>05-01257 2 US Regular Cort National Filed 12/414,282 3/30/2009 05-01258 1 US Regular ORG National Filed 11/008,869 12/92004 US Hegular ORG National Filed 11/008,869 12/92009 US Hegular ORG National Filed 11/387,206 3/23/2006 US 11/281/2017 US Regular ORG National Filed 11/387,479 3/21/2006 US 11/281/2017 US Regular ORG National Filed 11/387,779 4/21/2006 US 11/281/2017 US Regular ORG National Filed 11/38,146 5/26/2005 5/29/2007 11/29/2010 7/11/2025 05-01287 2 US Regular ORG National Filed 11/38,146 5/26/2005 5/29/2007 11/29/2010 7/11/2025 05-01287 3 US Regular ORG National Filed 11/48,688 5/29/2007 7/25,028 5/29/200</td><td>05-01257 1 US Regular ORG National Granted 10/992/390 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|--|---|-----------|-----------|-----------|-----------|------------|-----------------------|----------|----------|----------|---------|-------|--------|---------------------------|---------|
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| Methods and Systems of Automatically Detecting an Impedance of One or More Electrodes in a Cochlear Implant System | Impact Resistant Implantable Antenna Coil Assembly | Fixation devices for cochlear implant speech processors | Sound Processing Assembly for Use in a Cochlear Implant System | Spectral Tilt Optimization for Cochlear Implant Patients | Spectral Tilt Optimization for Cochlear Implant Patients | Obstructive Sleep Apnea Stimulator | Spectral Profile Adjustment of Incoming Audio Signals for Cochlear Implant Patients | | Compensation Current Optimization for Cochlear Implant 9 Systems | Methods and Systems of Adjusting One or More Perceived Attributes of an Audio Signal | Methods and Systems of Adjusting One or More Perceived Attributes of an Audio Signal | Cochlear implant for an implantable cochlear stimulation system and method of assembly | Hermetically Sealed Feedtrhough Case | 9 Hermetically Sealed Feedtrhough Case | Methods and Systems of Conveying Fine Structure Information to a Cochlear Implant Patient | Methods and Systems of Conveying Fine Structure Information to a Cochlear Implant Patient | Modular Drug Delivery System for Minimizing Trauma During and After Insertion of a Cochlear Lead | Minimizing Trauma During and After Insertion of a Cochlear Lead | Minimizing Trauma During and After Insertion of a Cochlear Lead | Spectral Contrast Enhancement in a Cochlear Implant Speech Processor | Tonality-Based Optimization of Sound Sensation for a Cochlear Implant Patient | | Methods and Systems of Compensating for a Disabled Electrode | Methods and Systems of Optimizing Stimulation Current Applied to a Cochlear Implant Patient | Pre-Curved Electrode Array Insertion Tools | Microcircuit Cochlear Electrode Array and Method of Manufacture | Atraumatic High-Retention Headpiece\n | 0 |

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| | | 7/9/2009 | 6/16/2009 | | 7/21/2009 | 7/8/2009 | 5/29/2009 | 5/29/2009 | 9/25/2009 | 9/11/2009 | | 9/29/2009 | | | 5/4/2009 | 5/22/2009 | 1/30/2009 | | 10/31/2008 | | 1/30/2009 | | | 9/16/2009 | 9/18/2008 | 12/20/2008 | 9/29/2009 | 10/3/2008 | 5/22/2009 | |
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| I 프리티티 그는 [] 그는 [필드어즈 I 를 하는 하는 이 그는 그 사람이 나를 하는 다른 | Modular Off-The-Ear Processor For Use will System | | | Dynamic Compliance Voltage Managemen Medical Device | Integrated Wire Carrier for Electrode Array | Lead Insertion Tools | Hearing Device Counseling Kit | Hearing Device Counseling Kit | System for Protecting Patient Identification | | Remote Audio Pre-Processor Device for Co Systems/Audio Pre-Processor Module For (| Methods and Systems for Representing Dif Components of an Audio Signal Presented Implant Patient | Audio/Acoustic Based Remote Control Dev Cochlear Implant System | Implantable Cochlear Implant System | Multi-Contact Connector System | Composite Stylet | | | | | | | Computationally Efficient EFIM Based Tech Independent Stimulation Channels | Methods and Systems of Generating a Graj Representation of an Intracochlear Trajecto | | | Removable Module for Hearing Assistance | | | |

| (i) Patents and Patent Application | Owned IP |
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