

1) Family number: 74453329 (WO19097488 A1)

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Title: DEVICE FOR ELECTRICAL AND MAGNETIC TISSUE STIMULATION

Priority: CO20170011756 20171117 WO2018IB59075 20181117

Family:

Publication number	Publication date	Application number	Application date
CN111727070 A	20200929	CN201880078638	20181117
CO20170011756 A1	20190521	CO20170011756	20171117
EP3711812 A1	20200923	EP20180878622	20181117
WO19097488 A1	20190523	WO2018IB59075	20181117

Probable Assignee: PANACEA QUANTUM LEAP TECH LLC

Assignee(s):(std): PANACEA QUANTUM LEAP TECH LLC

Assignee(s): PANACEA QUANTUM LEAP TECHNOLOGY LLC

Inventor(s):(std): VELASCO VALCKE FRANCISCO JAVIER

Agent(s): MANUEL ILLESCAS Y ASOCIADOS SL; OLARTE CARLOS R

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): A61N1/00 A61N2/00

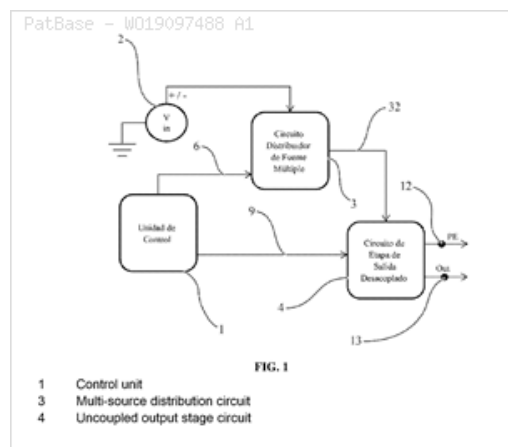
CPC: A61N1/00 A61N2/00

[Classification Explorer](#)

Cited documents: US9572978 BB, EP1578266 B1, CA2977584 AA, CA2801333 AA, US5718662 A, US5658322 A,

Abstract:

The present invention corresponds to a device for electrical and magnetic tissue stimulation which comprises a multi-source distribution circuit, an uncoupled output stage circuit connected to the multi-source distribution circuit and to a control unit, the control unit being connected to the multi-source distribution circuit and to the uncoupled output stage circuit, wherein the control unit generates the PE and Out outputs for electrical and magnetic tissue stimulation. The invention also has a multi-source distribution circuit which comprises a control unit connected to a source output selector, a voltage regulating circuit is connected to a current limiter, the current limiter is connected to a capacitor, to a capacitor bank and to the source output selector; wherein the control unit controls the source output selector via an output control signal bus, the source output selector connecting or disconnecting one or more capacitors of the capacitor bank.



2) Family number: 47407119 (US2005288751 AA)

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Title: MEDICAL DEVICE WITH AN ELECTRICALLY CONDUCTIVE ANTI-ANTENNA MEMBER

Priority: US20030497591P 20030825 US20040922359 20040820 US20050698393P 20050712
US20050214623 20050830

Family:

Publication number	Publication date	Application number	Application date
US2005288751 AA	20051229	US20050214623	20050830

Probable Assignee: MEDTRONIC INC

Assignee(s):(std): BIOPHAN TECHNOLOGIES INC

Assignee(s): IROQUOIS MASTER FUND LTD ; MEDTRONIC INC

Inventor(s):(std): GRAY ROBERT W

Inventor(s): GRAY ROBERT

Agent(s): BASCH AND NICKERSON LLP

International class A61B17/24 A61B19/00 A61B5/055 A61N1/00 A61N1/05 A61N1/08 A61N1/362 A61N1/37

(IPC 8-9):

International class A61N1/00

(IPC 1-7):

CPC: A61B2090/0481 A61B2090/374 A61B5/02007 A61B5/055 A61B5/7203 A61B90/04 A61F2/86 A61F2/90 A61F2/91 A61F2210/009 A61L31/022 A61L31/124 A61L31/18 A61N1/00 A61N1/056 A61N1/37 A61N2/00 G01R33/285

US class: 607/115 607/115P

[Classification Explorer](#)

Cited documents: US6824512 BB, US6822548 BB, US6815609 BA, US2004225213 AA, US2001044651 AA, US6144866 A, US2005222659 AA, US2005222658 AA, US2005222657 AA, US2005222656 AA, US2005222647 AA, US2005222642 AA, US2004210289 AA, US2003199768 AA, US6471645 BA, US2002161421 AA, US2002156515 AA, US5824045 A, US2005197677 AA, US2004181177 AA, US2004176822 AA, US6628980 BB, US2003171670 AA, US6456890 BB, US6451026 BA, US2002138135 AA, US7096057 BB, US2004164836 AA, US2004158310 AA, US6606513 BB, US2002111542 AA, US2002107562 AA, US6280385 BA, US6272370 BA, US5235281 A, US2804546 A, US2005155779 AA, US6767360 BA, US6765144 BA, US2004138733 AA, US2003135268 AA, US2003135114 AA, US6424234 BA, US5133732 A, US2006136039 AA, US2006118319 AA, US6906256 BA, US6745079 BB, US2003120148 AA, US2003105509 AA, US6074362 A, US5423881 A, US5217010 A, US7048716 BA, US6898454 BB, US6892086 BB, US6564084 BB, US2003088178 AA, US2003083726 AA, US2003083723 AA, US6393314 BA, US6238491 BA, US6231516 BA, US5751539 A, US6876886 BA, US2004078067 AA, US2004077995 AA, US2002040185 AA, US5897585 A, US5507767 A, US7013180 BB, US6864418 BB, US6714809 BB, US6713671 BA, US6712844 BB, US6711443 BB, US6701176 BA, US6700472 BB, US6539253 BB, US2003050557 AA, US2002038135 AA, US6033436 A, US5727552 A, US4320763 A, US2005043761 AA, US2005029990 AA, US2003036776 AA, US6032063 A, US5871528 A, US7162293 BB, US6847837 BA, US6846985 BB, US6844492 BA, US6675049 BB, US6673999 BA, US6506972 BA, US6503272 BB, US2003018369 AA, US5278503 A,

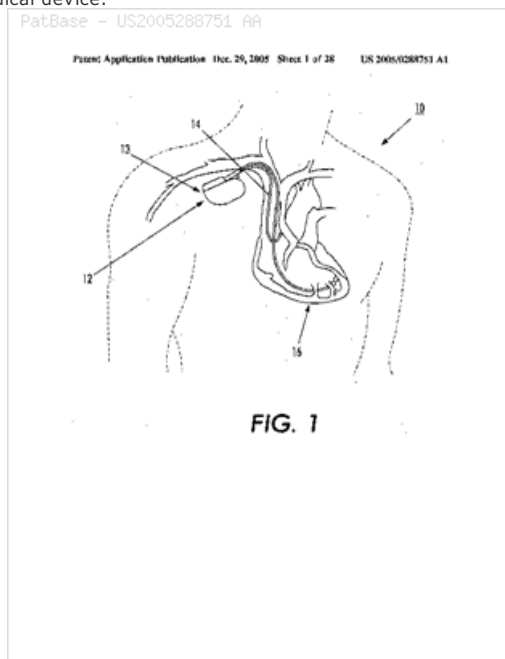
Forward Citations: US10502802 BA, US10470902 BB, US9925074 BB, US9895242 BB, US9629736 BB, US9585776 BB, US8527046 BB, US8419788 BB, US8414635 BB, US9408730 BB, US9408729 BB, US2011046700 AA, US2010179619 AA, US2008119917 AA, US9149374 BB, US2005283213 AA, US8974516 BB, US8966733 BB, US8876880 BB, US8818526 BB, US8739382 BB, US8386057 BB, US8380324 BB, US8239040 BB, EP2380489 A1,

DE102007022333 A1

EP1923095 A2, EP1923094 A1,

Abstract:

A lead includes a conductor having a distal end and a proximal end and a resonant circuit connected to the conductor. The resonant circuit has a resonance frequency approximately equal to an excitation signal's frequency of a magnetic resonance imaging scanner or a resonance frequency not tuned to an excitation signal's frequency of a magnetic resonance imaging scanner so as to reduce the current flow through a tissue area, thereby reducing tissue damage. The resonant circuit may be included in an adapter that provides an electrical bridge between a lead a medical device such as an electrode, sensor, or signal generator. The resonant circuit may also be included directly in the housing of a medical device.



3) Family number: 74879654 (US2020312454 AA)

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Title: TISSUE-STIMULATION DEVICE WITH OUTPUT DEMULTIPLEXER

Priority: CO20170013221 20171220 WO20181B60476 20181220

Family:

Publication number	Publication date	Application number	Application date
CO20170013221 A1	20190628	CO20170013221	20171220
US2020312454 AA	20201001	US20180954664	20181220
WO19123395 A1	20190627	WO20181B60476	20181220

Probable Assignee: PANACEA QUANTUM LEAP TECH LLC

Assignee(s):(std): PANACEA QUANTUM LEAP TECH LLC

Assignee(s): PANACEA QUANTUM LEAP TECHNOLOGY LLC

Inventor(s):(std): VELASCO VALCKE FRANCISCO JAVIER

Agent(s): OLARTE CARLOS R

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

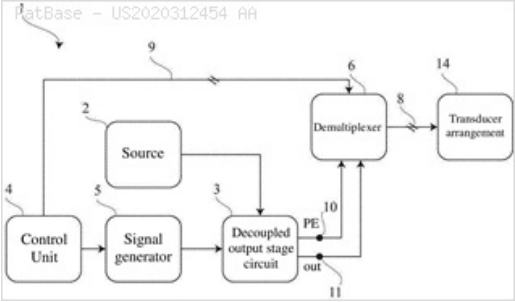
International class (IPC 8-9): A61F7/00 A61H23/00 A61N1/00 A61N1/40 A61N2/00 A61N2/02 A61N5/00 G06F13/42 G16H20/30 G16H20/40 G16H40/67

CPC: A61F2007/0075 A61F7/007 A61H23/00 A61N1/00 A61N1/40 A61N2/00 A61N2/002 A61N2/02 A61N5/00 G06F13/42 G06F2213/40 G16H20/30 G16H20/40 G16H40/67

[Classification Explorer](#)

Cited documents: US2017157431 AA, US2011046687 AA, US2005216062 AA,

Abstract:
A tissue stimulation device comprising: a source; a control unit; a decoupled output stage circuit connected to the source and the control unit; a signal generator connected to the input of the decoupled output stage circuit and the control unit; an analog demultiplexer connected to the output stage circuit decoupled by a PE signal and an out signal, the analog demultiplexer is connected to the control unit, and a transducer array is connected to the output of the analog demultiplexer; wherein the control unit selects the output of the analog demultiplexer that allows switching of the PE and out signals to activate the transducers in the transducer array to stimulate tissue.



4) Family number: 47407120 (US2005288752 AA)

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Title: MEDICAL DEVICE WITH AN ELECTRICALLY CONDUCTIVE ANTI-ANTENNA MEMBER

Priority: US20030497591P 20030825 US20040922359 20040820 US20050698393P 20050712
US20050214624 20050830

Family:

Publication number	Publication date	Application number	Application date
US2005288752 AA	20051229	US20050214624	20050830

Probable Assignee: MEDTRONIC INC

Assignee(s):(std): BIOPHAN TECHNOLOGIES INC

Assignee(s): IROQUOIS MASTER FUND LTD ; MEDTRONIC INC

Inventor(s):(std): GRAY ROBERT W

Inventor(s): GRAY ROBERT

Agent(s): BASCH AND NICKERSON LLP

International class (IPC 8-9): A61B17/24 A61B19/00 A61B5/055 A61N1/00 A61N1/05 A61N1/08 A61N1/362 A61N1/37

International class (IPC 1-7): A61N1/00

CPC: A61B2090/0481 A61B2090/374 A61B5/02007 A61B5/055 A61B5/7203 A61B90/04 A61F2/86 A61F2/90 A61F2/91 A61F2210/009 A61L31/022 A61L31/124 A61L31/18 A61N1/00 A61N1/056 A61N1/37 A61N2/00 G01R33/285

US class: 607/115 607/115P

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Cited documents: US6451026 BA, US2002138135 AA, US6123722 A, US6117167 A, US7096057 BB, US2004164836 AA, US2004158310 AA, US6606513 BB, US2002111542 AA, US2002107562 AA, US6280385 BA, US6272370 BA, US2804546 A, US2005155779 AA, US6767360 BA, US6765144 BA, US2004138733 AA, US2003144721 AA, US2003144716 AA, US2003135268 AA, US2003135114 AA, US6424234 BA, US5133732 A, US4850356 A, US523281 A, US2006136039 AA, US2006118319 AA, US6906256 BA, US6745079 BB, US2003120148 AA, US2003105509 AA, US6251136 BA, US6241691 BA, US6074362 A, US5423881 A, US5320100 A, US5217010 A, US521010 A, US7048716 BA, US6898454 BB, US6892086 BB, US6564084 BB, US2003088178 AA, US2003083726 AA, US2003083723 AA, US6393314 BA, US6238491 BA, US6231516 BA, US6228111 BA, US6224625 BA, US5751539 A, US5630829 A, US4830003 A, US6876886 BA, US2004078067 AA, US2004077995 AA, US2002040185 AA, US6221102 BA, US6221100 BA, US6221099 BA, US5897585 A, US5507767 A, US4661530 A, US7013180 BB, US6864418 BB, US6714809 BB, US6713671 BA, US6712844 BB, US6711443 BB, US6701176 BA, US6700472 BB, US6539253 BB, US2003050557 AA, US2002038135 AA, US6033436 A, US5727552 A, US5725572 A, US4320763 A, US2005043761 AA, US2005029990 AA, US2003036776 AA, US6350279 BA, US6183509 BA, US6183508 BA, US6032063 A, US7162293 BB, US6847837 BA, US6846985 BB, US6844492 BA, US2005015128 AA, US6675049 BB, US6673999 BA, US6506972 BA, US6503272 BB, US2003018369 AA, US6168619 BA, US5860999 A, US5278503 A, US2699499 A,

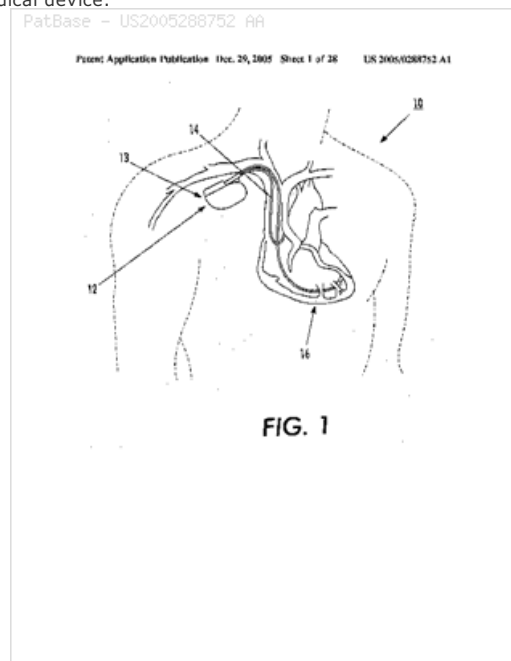
Forward Citations: US10502802 BA, US10470902 BB, US9925074 BB, US9895242 BB, US9629736 BB, US9585776 BB, US8527046 BB, US8419788 BB, US8414635 BB, US9408730 BB, US9408729 BB, US2011046700 AA, US2010179619 AA, US2008119917 AA, US9149374 BB, US2005283213 AA, US8974516 BB, US8966733 BB, US8876880 BB, US8818526 BB, US8739382 BB, US8386057 BB, US8380324 BB, US8239040 BB, EP2380489 A1,

DE102007022333 A1

EP1923095 A2, EP1923094 A1,

Abstract:
A lead includes a conductor having a distal end and a proximal end and a resonant circuit connected to the conductor. The resonant circuit has a resonance frequency approximately equal to an excitation signal's frequency of a magnetic resonance

imaging scanner or a resonance frequency not tuned to an excitation signal's frequency of a magnetic resonance imaging scanner so as to reduce the current flow through a tissue area, thereby reducing tissue damage. The resonant circuit may be included in an adapter that provides an electrical bridge between a lead a medical device such as an electrode, sensor, or signal generator. The resonant circuit may also be included directly in the housing of a medical device.



5) Family number: 47407118 (US2005288750 AA)

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Title: MEDICAL DEVICE WITH AN ELECTRICALLY CONDUCTIVE ANTI-ANTENNA MEMBER

Priority: US20030497591P 20030825 US20040922359 20040820 US20050698393P 20050712
US20050214622 20050830

Family:

Publication number	Publication date	Application number	Application date
US2005288750 AA	20051229	US20050214622	20050830

Probable Assignee: MEDTRONIC INC

Assignee(s):(std): BIOPHAN TECHNOLOGIES INC

Assignee(s): IROQUOIS MASTER FUND LTD ; MEDTRONIC INC

Inventor(s):(std): GRAY ROBERT W

Inventor(s): GRAY ROBERT

Agent(s): BASCH AND NICKERSON LLP

International class (IPC 8-9): A61B17/24 A61B19/00 A61B5/055 A61N1/00 A61N1/05 A61N1/08 A61N1/362 A61N1/37

International class (IPC 1-7): A61N1/00

CPC: A61B2090/0481 A61B2090/374 A61B5/02007 A61B5/055 A61B5/7203 A61B90/04 A61F2/86 A61F2/90 A61F2/91 A61F2210/009 A61L31/022 A61L31/124 A61L31/18 A61N1/00 A61N1/056 A61N1/37 A61N2/00 G01R33/285

US class: 607/115 607/115P

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Cited documents: US2006282153 AA, US6325822 BA, US6159239 A, US6156064 A, US5702419 A, US5170802 A, US2006247748 AA, US2006247747 AA, US2006247684 AA, US2004225213 AA, US2001044651 AA, US2005222659 AA, US2003199768 AA, US2002161421 AA, US2002156515 AA, US5824045 A, US684985 A, US2005197677 AA, US2004181177 AA, US6628980 BB, US6451026 BA, US6123722 A, US6117167 A, US2004158310 AA, US6606513 BB, US2002107562 AA, US6280385 BA, US6272370 BA, US6767360 BA, US2004138733 AA, US2003135268 AA, US5133732 A, US2006136039 AA, US2006118319 AA, US6906256 BA, US2003105509 AA, US6251136 BA, US6241691 BA, US6074362 A, US5320100 A, US5217010 A, US7048716 BA, US6898454 BB, US6892086 BB, US2003088178 AA, US2003083726 AA, US2003083723 AA, US6238491 BA, US6231516 BA, US6228111 BA, US6224625 BA, US5630829 A, US4830003 A, US2002040185 AA, US6221102 BA, US6221100 BA, US6221099 BA, US5507767 A, US4661530 A, US6864418 BB, US6714809 BB, US6713671 BA, US6712844 BB, US6701176 BA, US2003050557 AA, US6033436 A, US5725572 A, US4320763 A, US6350279 BA, US6183509 BA, US6183508 BA, US6846985 BB, US6673999 BA, US6168619 BA, US5860999 A,

Forward Citations: US10502802 BA, US2011046700 AA, US8818526 BB, RU2481592 C2, US8380324 BB,

Abstract:
A lead includes a conductor having a distal end and a proximal end and a resonant circuit connected to the conductor. The resonant circuit has a resonance frequency approximately equal to an excitation signal's frequency of a magnetic resonance imaging scanner or a resonance frequency not tuned to an excitation signal's frequency of a magnetic resonance imaging scanner so as to reduce the current flow through a tissue area, thereby reducing tissue damage. The resonant circuit may be included in an adapter that provides an electrical bridge between a lead a medical device such as an electrode, sensor, or signal generator. The resonant circuit may also be included directly in the housing of a medical device.

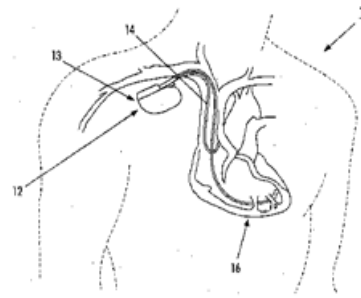


FIG. 1