

1) Family number: 70158023 (WO18178753A1)

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Title: BIOSENSOR FOR BIOPHYSICAL MEASUREMENT OF CERVICAL SECRETION BIOCAPTEUR POUR LA MESURE BIOPHYSIQUE DE LA GLAIRE CERVICALE </TI_F

Priority: CO20170003215 20170331

Family:

Publication number	Publication date	Application number	Application date
CO20170003215 A1	20180410	CO20170003215	20170331
WO18178753 A1	20181004	WO20171B56050	20170930

Probable Assignee: MURCIA LORA JOSE MARIA

Assignee(s):(std): MURCIA LORA JOSE MARIA

Assignee(s): JOSE MARIA MURCIA LORA

Inventor(s):(std): MURCIA LORA JOSE MARIA

Inventor(s): JOSE MARIA MURCIA LORA

Agent(s): JOHAN SEBASTIAN GOMEZ VILLA; GOMEZ VILLA JOHAN SEBASTIAN ET AL

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

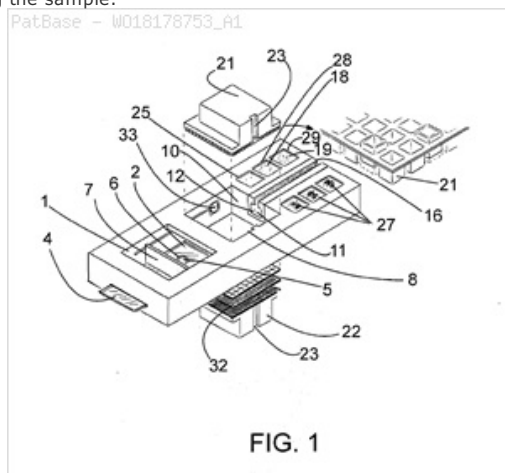
International class (IPC 8-9): A61B10/00 (Advanced/Invention)

CPC: A61B10/00

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Abstract:

The present invention belongs to the field of medical or diagnostic devices aimed at solving a common need of life, and relates specifically to a device that comprises a mechanism for measuring the biophysical properties of cervical secretion, such as stretchiness, elasticity, fluidity, and crystallisation; the device comprises a sample-receiving tank, a sample material transition zone, a central platform, two parts coupled together that determine the elasticity and fluidity of the sample in the central zone of the device, and a transverse slot in a glass receiving tank for crystallising the sample.



2) Family number: 63726780 (US2013245486A)

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Title: DEVICES AND METHODS FOR MONITORING NON-INVASIVE VAGUS NERVE STIMULATION

Priority: US20090408131 20090320 US20090612177 20091104 US20100859568 20100819
US20100415469P 20101119 US20100964050 20101209 US20110005005 20110112
US20110451259P 20110310 US20110075746 20110330 US20110471405P 20110404
US20110109250 20110517 US20110487439P 20110518 US20110488208P 20110520
US20110183765 20110715 US20110183721 20110715 US20110222087 20110831
US20110279437 20111024 US20120603799 20120905 US20130752895P 20130115
US20130858114 20130408 US20130872116 20130428

Family:

Publication number	Publication date	Application number	Application date
US2013245486 AA	20130919	US20130872116	20130428
US9254383 BB	20160209	US20130872116	20130428

Probable Assignee: ELECTROCORE LLC

Assignee(s):(std): ELECTROCORE LLC ; ERRICO JOSEPH P ; SIMON BRUCE J

Inventor(s):(std): ERRICO JOSEPH P ; SIMON BRUCE J

Agent(s): DENTONS US LLP

International class A61B5/00 A61B5/0488 A61N1/36 (Advanced/Invention);

(IPC 8-9): A61B19/00 A61B5/024 A61N1/40 (Advanced/Non-invention)

CPC: A61N1/36021 A61B5/04886 A61B5/4035 A61B5/4041 A61B5/4803 A61B5/4836 A61B5/7264 A61B5/7267 A61N1/36014 A61B5/02405 A61B2019/5441 A61N1/40 A61B2090/3941 A61B5/687

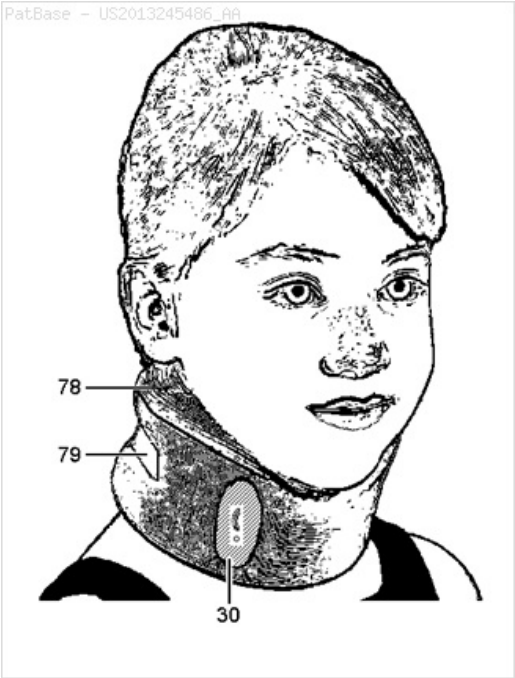
US class: 1/1 600/300 600/546 600/558 607/46

[Classification Explorer](#)

Cited documents: WO9301862 A1, WO09135693 A1, WO09021080 A2, US7797041 BB, US6610713 BB, US6587719 BA, US6463327 BA, US6341236 BA, US5983131 A, US5899922 A, US5458141 A, US4196737 A, US3590810 A, US2012303080 AA, US2012283697 AA, US2012029601 AA, US2011230701 AA, US2011224749 AA, US2011213295 AA, US2011152967 AA, US2011046432 AA, US2010286553 AA, US2009287035 AA, US2009234419 AA, US2009157149 AA, US2008306325 AA, US2008208266 AA, US2008177190 AA, US2008132964 AA, US2008045776 AA, US2008027513 AA, US2008021512 AA, US2007276449 AA, US2007150024 AA, US2007150006 AA, US2007142886 AA, US2007123952 AA, US2007027496 AA, US2006178703 AA, US2006173510 AA, US2006100671 AA, US2006100668 AA, US2006074284 AA, US2005159790 AA, US2005137644 AA, US2005065574 AA, US2005021092 AA, US2004249416 AA, US2004243182 AA, US2002183237 AA, US2002099417 AA, US2001003799 AA,

Forward Citations: WO17205847, WO16134273, WO16113661, WO15179571, WO15138981, WO04106071, US9993651, US9987489, US9849286, US9833621, US9802041, US9782584, US9731131, US9731123, US9700716, US9669213, US9662490, US9517340, US9452287, US9370658, US9345885, US9230563, US2017136265, US2017136264, US2017043160, US2017036018, US2017000584, US2016096027, US2016015972, US2016015280, US2015306396, US2015241447, US2015142084, US2014207444, US2013310909, US2013310899, US2013060167, US10130809, US10105191, US10099053, US10039928, US10016615, US10016600, RU2653681, GB2521877, GB2521877, EP3245950, EP3244965, CN106794348,

Abstract:
 Devices and methods are disclosed that treat a medical condition, such as migraine headache, by electrically stimulating a nerve noninvasively, which may be a vagus nerve situated within a patient's neck. Preferred embodiments allow a patient to self-treat his or her condition. Disclosed methods assure that the device is being positioned correctly on the neck and that the amplitude and other parameters of the stimulation actually stimulate the vagus nerve with a therapeutic waveform. Those methods comprise measuring properties of the patient's larynx, pupil diameters, blood flow within an eye, electrodermal activity and/or heart rate variability.



3) Family number: 59227828 (US2018038838A)
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Title:	COLLISION SURFACE FOR IMPROVED IONISATION			
Priority:	GB20150003863	20150306	GB20150003864	20150306
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	US20170555783	20170905	US20180033447	20180712
Family:	Publication number	Publication date	Application number	Application date
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	CA2978042 AA	20170828	CA20162978042	20160307
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	CA2978165 AA	20170829	CA20162978165	20160307
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	CA2981085 AA	20170927	CA20162981085	20160307
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Inventor(s): SZALAY D NIEL

Agent(s): RIDOUT AND MAYBEE LLP; JEFFREY PHILIP MICHAEL; YAMADA TAKUJI; KAWABATA JUNICHI; CHIVA ANDREW PETER

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 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 JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MM 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): A61B1/00 A61B1/012 A61B1/018 A61B1/04 A61B1/273 A61B1/313 A61B10/00 A61B10/02 A61B10/04 A61B17/00 A61B17/32 A61B17/3203 A61B17/3205 A61B17/94 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B18/18 A61B18/20 A61B18/22 A61B5/00 A61B5/01 A61B5/05 A61B5/055 A61B6/03 A61B8/13 A61B90/00 A61B90/13 A61F13/38 A61N7/00 C12Q1/02 C12Q1/04 C12Q1/06 C12Q1/18 C12Q1/24 G01N1/02 G01N1/22 G01N21/65 G01N27/62 G01N27/64 G01N3/00 G01N3/303 G01N30/72 G01N33/02 G01N33/48 G01N33/483 G01N33/487 G01N33/50 G01N33/68 G01N33/92 G01N37/00 G01N9/00 G16H40/60 H01J49/00 H01J49/02 H01J49/04 H01J49/06 H01J49/10 H01J49/14 H01J49/16 H01J49/24 H01J49/26 H1J49/00 (Advanced/Invention); A61B1/00 A61B1/06 A61B1/31 A61B17/32 A61B18/00 A61B18/14 A61B34/30 A61B5/145 A61B90/90 A61G13/00 G01N27/62 G06F19/18 G16H10/40 G16H15/00 G16H50/20 (Advanced/Non-invention)

CPC: A61B90/06 A61B18/18 G01N27/62 G01N27/622 A61B18/1402 G01N33/6803 G01N33/4833 H01J49/00 H01J49/142 H01J49/0422 H01J49/0468 G01N33/68 A61B18/14 A61B2218/008 G01N3/00 G01N9/00 G01N33/6848 G01N33/92 H01J49/0036 H01J49/0404 H01J49/0459 H01J49/068 H01J49/16 A61B10/00 A61B18/042 A61B18/1815 A61B2010/0083 A61B2017/320069 A61B90/13 H01J49/0031 H01J49/025 H01J49/0004 H01J49/0463 G01N33/487 A61F13/38 A61B5/015 A61B5/0507 A61B5/055 A61B6/032 A61B6/037 A61B8/13 A61B5/14542 H01J49/14 A61B2018/00577 G06F19/18 G06F19/324 G06F19/3481 A61B10/0233 A61B10/0283 A61B18/20 A61B5/0075 A61B1/00013 A61B1/041 H01J49/26 G01N27/624 H01J49/0445 H01J49/24 H01J49/061 H01J49/10 A61B1/31 C12Q1/04 G01N2333/195 C12Q1/18 C12Q1/025 C12Q1/24 G01N2570/00 G01N2405/04 G01N2405/08 G01N2405/00 G01N2001/2223 G01N2800/26 G01N33/6851 H01J49/164 A61B18/1445 A61B5/0066 A61B17/00 A61B17/320068 G01N33/50 A61B10/04 A61B17/32056 A61B2017/00358 C12Q1/06 G01N30/724 A61B10/0041 A61B1/2736 A61B2018/00589 H01J49/0409 H01J49/0027 A61B18/04 A61B2018/00994 A61B2218/002 A61B18/00 G01N33/48735 G16H15/00 G16H10/40 H01J49/044 G16H50/20 H01J49/049 G01N1/2202

[Classification Explorer](#)

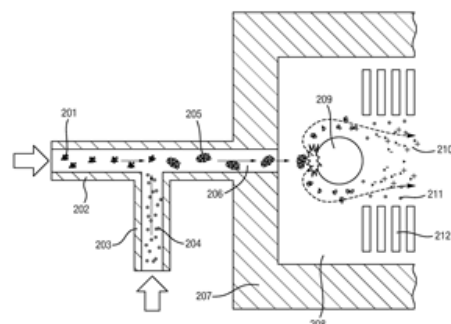
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Forward Citations: WO18189533, WO18144550, WO18013678, WO17178833, WO17153727, WO17153726, WO17109563, US10095774, RU26647113, GB2561372, GB2561039, GB2560076, CN107195528, CN106783509, CN106782967, CN106770613,

Abstract:

An apparatus for performing ambient ionisation mass and/or ion mobility spectrometry is disclosed. The apparatus comprises a substantially cylindrical, tubular, rod-shaped, coil-shaped, helical or spiral-shaped collision assembly; and a first device arranged and adapted to direct analyte, smoke, fumes, liquid, gas, surgical smoke, aerosol or vapour onto said collision assembly.

PatBase - US2018038838_AA

**4) Family number: 63726865 (US2016151628A)**

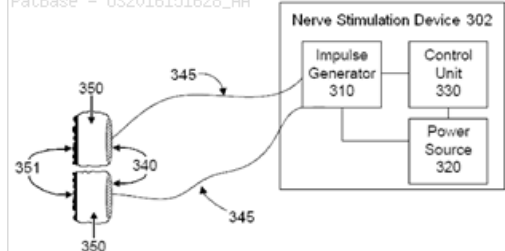
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Title:	DEVICES AND METHODS FOR MONITORING NON-INVASIVE VAGUS NERVE STIMULATION							
Priority:	US20090408131	20090320	US20090612177	20091104	US20100859568	20100819		
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Family:	Publication number	Publication date	Application number	Application date				
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Probable Assignee:	ELECTROCORE LLC							
Assignee(s):(std):	ELECTROCORE LLC							
Inventor(s):(std):	ERRICO JOSEPH P ; SIMON BRUCE J							
International class (IPC 8-9):	A61N1/36 (Advanced/Invention)							
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Forward Citations:	WO18089916, US9744369, US9687664, US9662507, US9630015, US9610457, US9583980, US9564777, US2015241447, US2013060167, US10039924,							

Abstract:

Devices and methods are disclosed that treat a medical condition, such as migraine headache, by electrically stimulating a nerve noninvasively, which may be a vagus nerve situated within a patient's neck. Preferred embodiments allow a patient to self-treat his or her condition. Disclosed methods assure that the device is being positioned correctly on the neck and that the amplitude and other parameters of the stimulation actually stimulate the vagus nerve with a therapeutic waveform. Those methods comprise measuring properties of the patient's larynx, pupil diameters, blood flow within an eye, electrodermal activity and/or heart rate variability.

PatBase - US2016151628_AA

**5) Family number: 42965982 (US2009048648A)**

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Title:	SELF-STERILIZING DEVICE							
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Agent(s): D YOUNG AND CO LLP; HARRIS IAN RICHARD; SEARETE LLC CLARENCE T TEGREENE; SEARETE LLC; INVENTION SCIENCE FUND CLARENCE T TEGREENE; WORKMAN NYDEGGER; DANIEL J; ADVENT LLP; MALASKA STEPHEN L ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE 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 IS IT JP KE KG KM KN KP KR 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 PE PG PH PL PT QA RV RS RU RW 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): A47L1/02 A47L15/00 A61B1/04 A61B18/00 A61B18/04 A61B18/12 A61B18/18 A61B19/00 A61B5/00 A61B5/05 A61B5/055 A61B5/145 A61B5/1455 A61B5/1468 A61B5/1486 A61B6/00 A61F2/30 A61F2/54 A61F7/00 A61F7/12 A61H1/00 A61K9/22 A61L17/14 A61L2/00 A61L2/02 A61L2/03 A61L2/08 A61L2/10 A61L2/14 A61L2/16 A61L2/18 A61L2/232 A61L2/24 A61L2/26 A61L27/28 A61L27/30 A61L27/54 A61L29/00 A61L29/08 A61L29/14 A61L29/16 A61L31/02 A61L31/08 A61L31/14 A61L31/16 A61M1/00 A61M25/00 A61M27/00 A61M37/00 A61M39/00 A61M5/00 A61M5/142 A61M5/168 A61N1/00 A61N1/05 A61N1/08 A61N1/20 A61N1/30 A61N1/36 A61N5/00 A61N5/06 B01J19/00 B01J19/12 B08B7/00 B08B9/00 B08B9/20 B82Y30/00 B82Y5/00 E05B1/00 G05D7/06 G06F12/14 G09B19/00 (Advanced/Invention);

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Abstract:

An insertable medical element may be supportive of evanescent energy for sterilization of a biomaterial. A system including an insertable medical element supportive of evanescent energy may include an energy source, where the energy source may be emissive of electromagnetic or plasmon energy, a sensor such as a surface plasmon resonance sensor, and/or it may include an imager.

