

18 Documents

Publication numbers	Title	Current assignees
WO2015133713 A1	Voice synthesis apparaatus and method for synthesizing voice	SAMSUNG ELECTRONICS
CA2865341 A1	Control of an heart ablation equipment using alaryngeal voiceless speech	BIOSENSE WEBSTER
CA2858190 A1	Stimulation system and method for voice lift	MED EL ELEKTROMEDIZINISCHE GERAETE
US5794203 A	Electronic anti-stuttering device providing auditory feedback and disfluency-detecting biofeedback	KEHOE; THOMAS DAVID
US20140277272 A1	Stimulation System and Method for Voice Lift	MED EL ELEKTROMEDIZINISCHE GERAETE
US20050281412 A1	Voice prosthesis with neural interface	MASSACHUSETTS EYE & EAR INFIRMARY
CA2868856 A1	Method and apparatus for the treatment of focal dystonia	MED EL ELEKTROMEDIZINISCHE GERAETE
US20150151129 A1	Treatment of spasmodic dysphonia via neuromodulation	MED EL ELEKTROMEDIZINISCHE GERAETE
WO2010122560 A2	Control method, control apparatus and use of the control apparatus, comprising sensing the position of the soft palate.	YEDA RESEARCH & DEVELOPMENT
WO200551329 A2	Systems and methods for altering vestibular biology	WICAB
US20070250119 A1	Systems and methods for altering brain and body functions and for treating conditions and diseases of the same	WICAB
WO200852166 A2	Systems and methods for altering brain and body functions and for treating conditions and diseases	WICAB
US6055501 A	Counter homeostasis oscillation perturbation signals (chops) detection	MACCAUGHELTY; ROBERT J.
US20170061034 A1	Mobile user borne brain activity data and surrounding environment data correlation system	RITCHEY KENNETH IRA, ...
AU2016202615 A1	Pacemaker for Unilateral Vocal Cord Autoparalysis	MED EL ELEKTROMEDIZINISCHE GERAETE
US20110257464 A1	Electronic Speech Treatment Device Providing Altered Auditory Feedback and Biofeedback	KEHOE THOMAS DAVID
US20150324692 A1	Mobile user borne brain activity data and surrounding environment data correlation system	VIRTUAL VIDEO REALITY BY RITCHEY
US20130063550 A1	Mobile user borne brain activity data and surrounding	VIRTUAL VIDEO REALITY

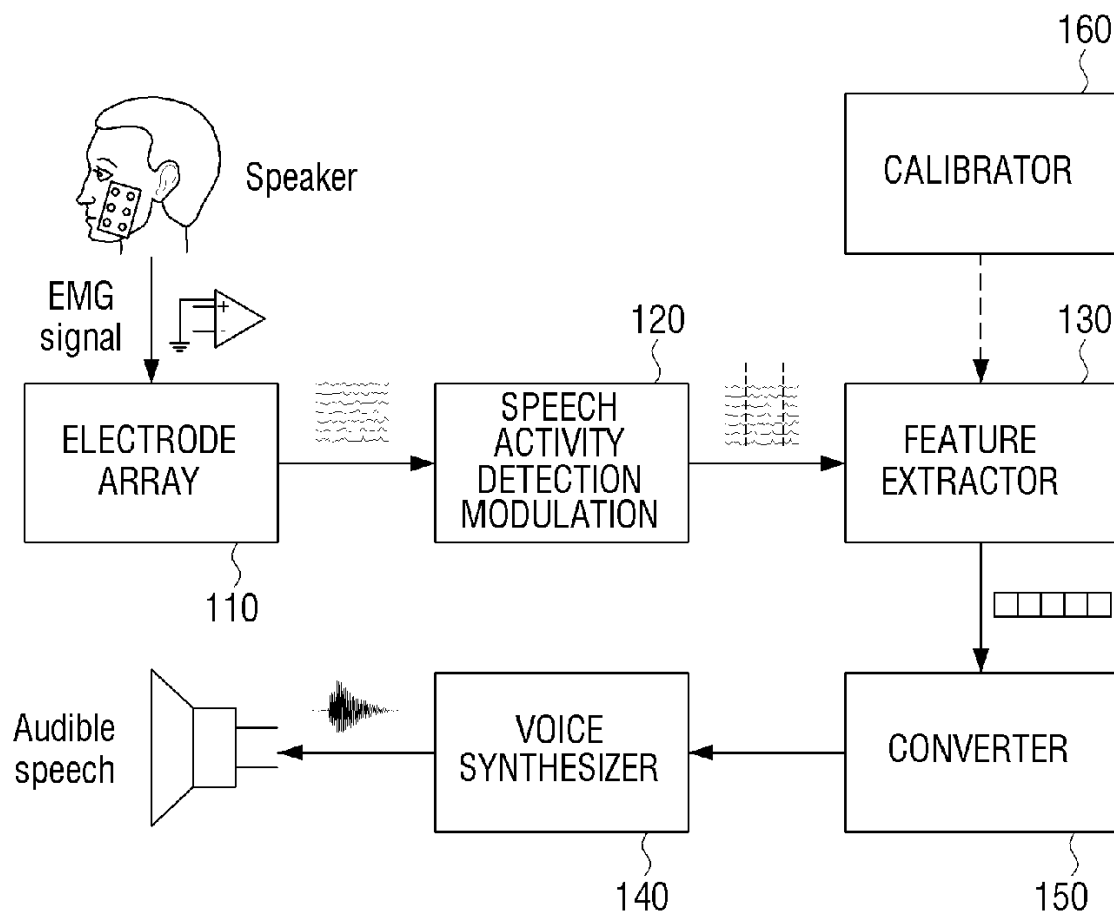
Publication numbers	Title	Current assignees
	environment data correlation system	BY RITCHEY

Family 1/18 - FAMPAT - ©Questel

Title

(WO2015133713)

Voice synthesis apparatus and method for synthesizing voice

Images**Publication data including kind & date**

WO2015133713	A1	2015-09-11	WO2015133713
KR20150104345	A	2015-09-15	KR20150104345
CN106233379	A	2016-12-14	CN106233379
US2017084266	A1	2017-03-23	US20170084266

**Abstract**

(WO2015133713)

A voice synthesis apparatus is provided. The voice synthesis apparatus includes: an **electrode** array configured to, in response to **voiceless** speeches of a user, detect an electromyogram (EMG) signal from skin of the user; a speech activity detection module configured to detect a **voiceless** speech period of the user; a feature extractor configured to extract a signal descriptor indicating a feature of the **EMG** signal for the **voiceless** speech period; and a voice synthesizer configured to synthesize speeches by using the extracted signal descriptor.

Inventors

BRONAKOWSKI LUKASZ JAKUB

RUTA ANDRZEJ

TKACZUK JAKUB

KOZINSKI DAWID

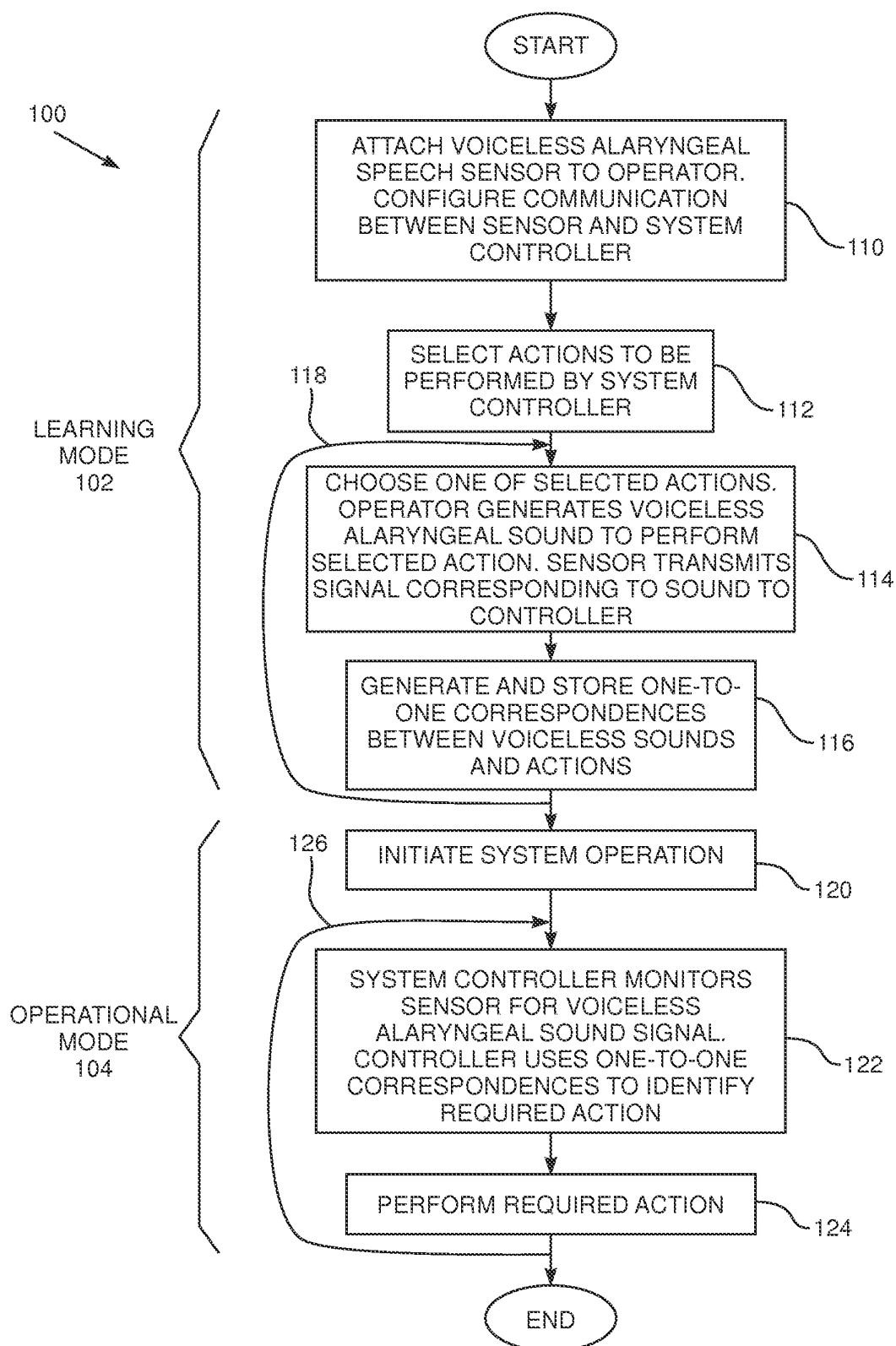
Latest standardized assignees - inventors removed

SAMSUNG ELECTRONICS

Family 2/18 - FAMPAT - ©Questel

Title

(EP2854132)

Control of an heart ablation equipment using alaryngeal **voiceless** speech**Images****Publication data including kind & date**

CA2865341

A1 2015-03-30

CA2865341

EP2854132

A1 2015-04-01

EP2854132

US2015095036

A1 2015-04-02

US20150095036



JP2015069653	A	2015-04-13	JP2015069653				
CN104517608	A	2015-04-15	CN104517608				
AU2014233625	A1	2015-04-16	AU2014233625				
US9640198	B2	2017-05-02	US9640198				
EP2854132	B1	2017-05-10	EP2854132				
IL234667	B	2018-01-31	IL-234667				

Abstract

(EP2854132)

Apparatus, including a sensor which is configured to be fixed to a neck of an operator of equipment in a location suitable for sensing a **voiceless** alaryngeal speech vibration generated by the operator during operation of the equipment, The apparatus further includes a processor which is configured to receive and process a signal output by the sensor so as to measure the **voiceless** alaryngeal speech vibration and so as to generate a control signal for the equipment responsively to the measured **voiceless** alaryngeal speech vibration.

Inventors

ZILBERMAN ISRAEL

Latest standardized assignees - inventors removed

BIOSENSE WEBSTER

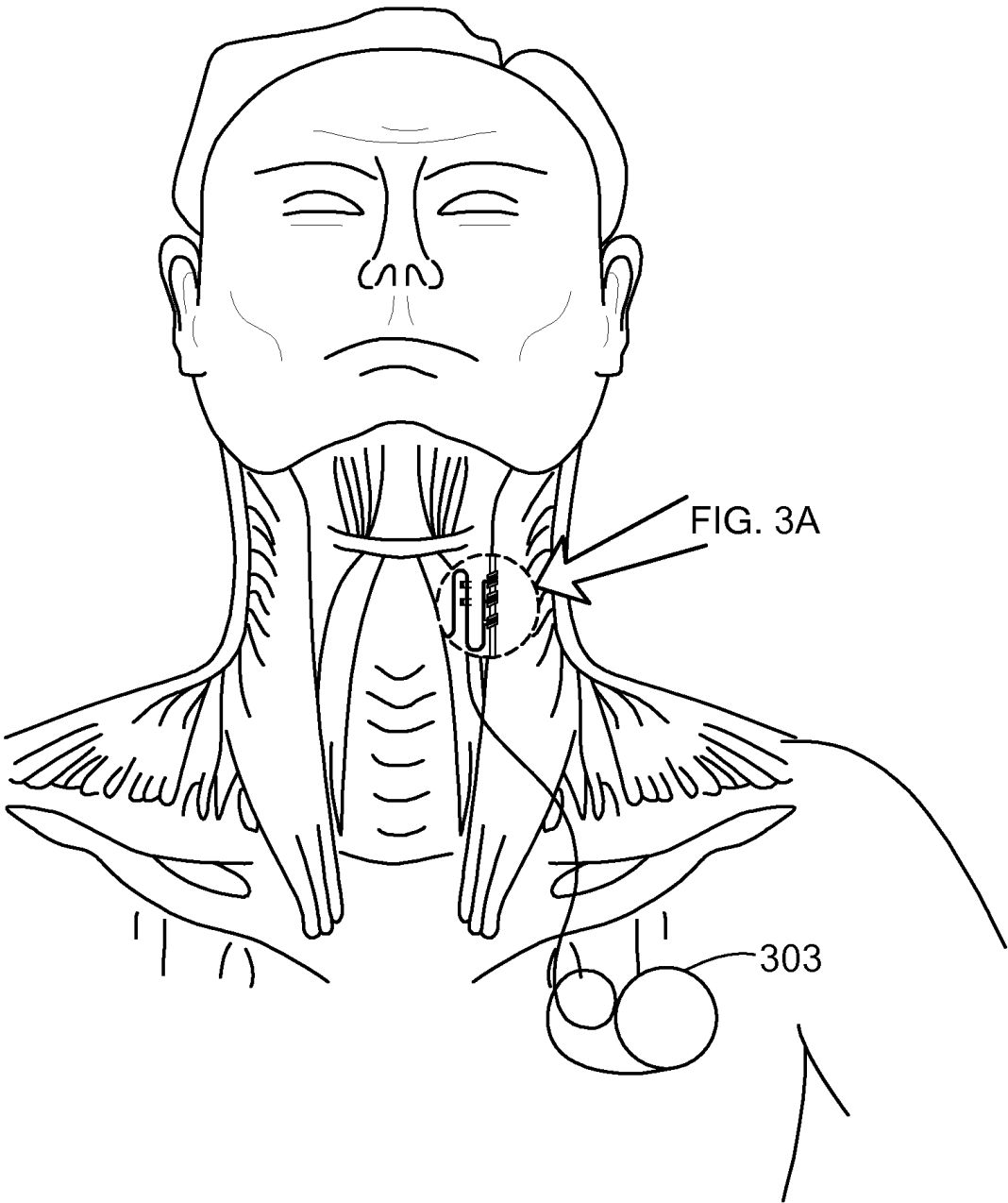
Family 3/18 - FAMPAT - ©Questel

Title

(EP2788083)

Stimulation system and method for voice lift

Images



Publication data including kind & date

CA2858190	A1	2013-06-13	CA2858190
CA2858098	A1	2013-06-13	CA2858098
WO2013086421	A1	2013-06-13	WO201386421
WO2013086412	A1	2013-06-13	WO201386412
US2013150926	A1	2013-06-13	US20130150926
US2013150924	A1	2013-06-13	US20130150924
US2013150908	A1	2013-06-13	US20130150908
WO2013086392	A1	2013-06-13	WO201386392
US8731683	B2	2014-05-20	US8731683
AU2012347519	A1	2014-06-12	AU2012347519
AU2012347584	A1	2014-07-03	AU2012347584
AU2012347510	A1	2014-07-24	AU2012347510
CN103987424	A	2014-08-13	CN103987424
CN103998096	A	2014-08-20	CN103998096
CN104080511	A	2014-10-01	CN104080511



EP2788083	A1	2014-10-15	EP2788083				
EP2788076	A1	2014-10-15	EP2788076				
EP2788082	A1	2014-10-15	EP2788082				
US9026204	B2	2015-05-05	US9026204				
US9050462	B2	2015-06-09	US9050462				
AU2012347519	B2	2015-06-11	AU2012347519				
AU2012347584	B2	2015-07-09	AU2012347584				
EP2788082	A4	2015-08-05	EP2788082				
US2015246228	A1	2015-09-03	US20150246228				
AU2012347510	B2	2015-09-17	AU2012347510				
AU2015221540	A1	2015-09-24	AU2015221540				
US2015306396	A1	2015-10-29	US20150306396				
EP2788083	A4	2015-11-04	EP2788083				
EP2788076	A4	2015-12-23	EP2788076				
CN103987424	B	2016-05-18	CN103987424B				
US9345885	B2	2016-05-24	US9345885				
CN103998096	B	2016-06-15	CN103998096B				
CN104080511	B	2016-06-29	CN104080511B				
US2016256684	A1	2016-09-08	US20160256684				
AU2015221540	B2	2016-09-15	AU2015221540				
US9731131	B2	2017-08-15	US9731131				
US9731123	B2	2017-08-15	US9731123				
CA2858098	C	2018-03-27	CA2858098				
EP2788076	B1	2018-04-25	EP2788076				

Abstract

(EP2788083)

A stimulation system and method for providing training therapy to a human subject having a weakened voice includes an activating switch configured to generate a first signal, and a processor configured to receive the first signal from the sensing **electrode** and to generate at least one stimulation parameter based on the first signal. The system further includes a stimulating **electrode** configured to receive the stimulation parameter from the processor and to activate a recurrent laryngeal nerve or vagus nerve of the subject in response to the stimulation parameter.

Inventors

LINDENTHALER WERNER

Latest standardized assignees - inventors removed

MED EL ELEKTROMEDIZINISCHE GERAETE

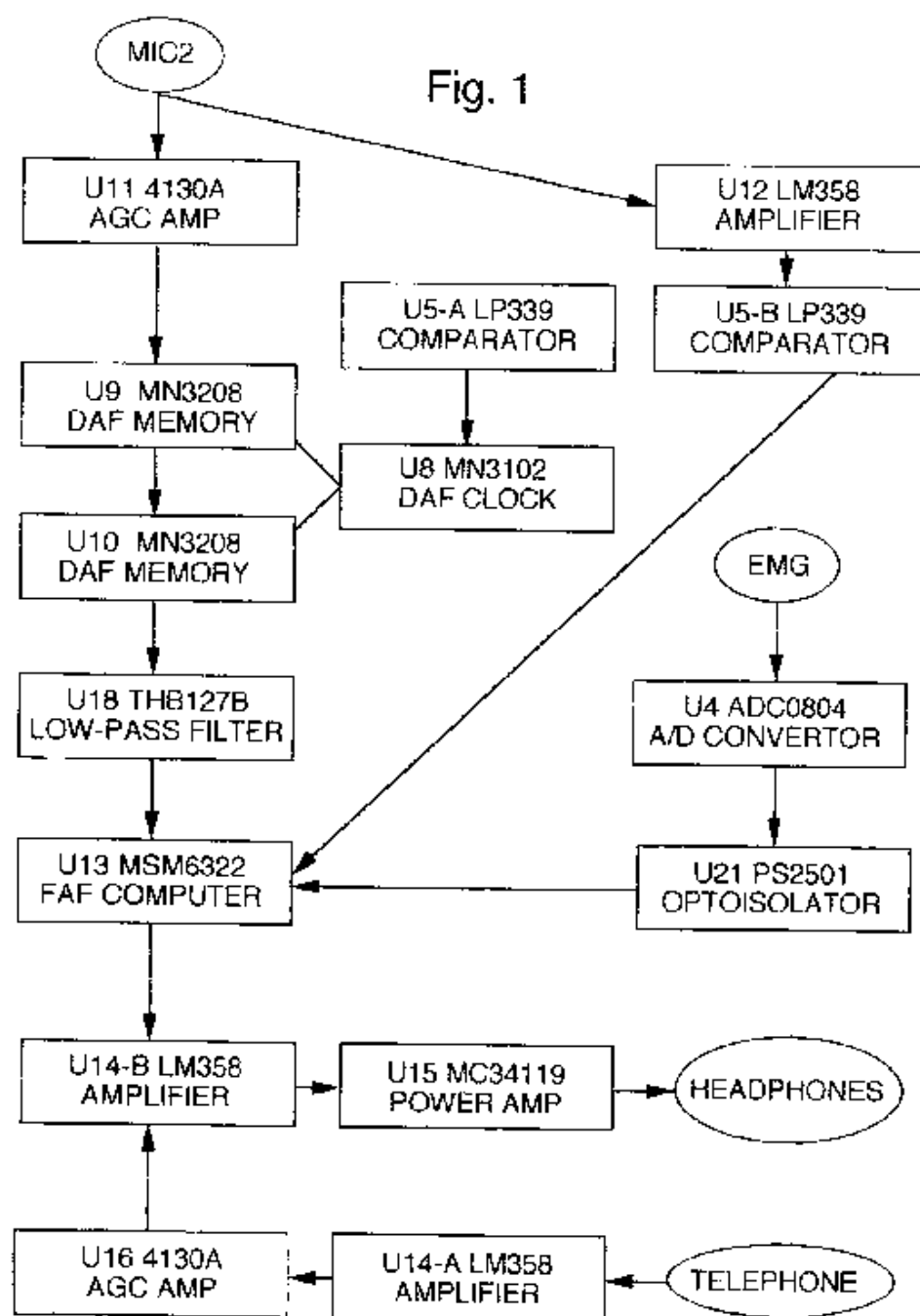
Family 4/18 - FAMPAT - ©Questel

Title

(US6231500)

Electronic anti-stuttering device providing auditory feedback and disfluency-detecting biofeedback

Images

**Publication data including kind & date**

US5794203	A	1998-08-11	US5794203
US6231500	B1	2001-05-15	US6231500

**Abstract**

(US6231500)

Improvements to a biofeedback device for treating stuttering are disclosed. The device monitors aspects of speech production. When stuttering phenomena are detected, the device provides fluency-enhancing auditory feedback to reduce stuttering. As the user develops speech motor skills (typically taught by a speech pathologist), the device senses reduced stuttering phenomena and reduces auditory feedback. When the user can talk fluently without feedback, he discontinues using the device and continues to talk fluently. The improvements disclosed in this continuation-in-part are a biofeedback feature that monitors the user's vocal pitch; micropower impulse radar to monitor the user's muscle activity; and a fluency-

enhancing auditory feedback feature that provides the sound of the user's vocal chords without the sounds added by nasal and oral cavities.

Inventors

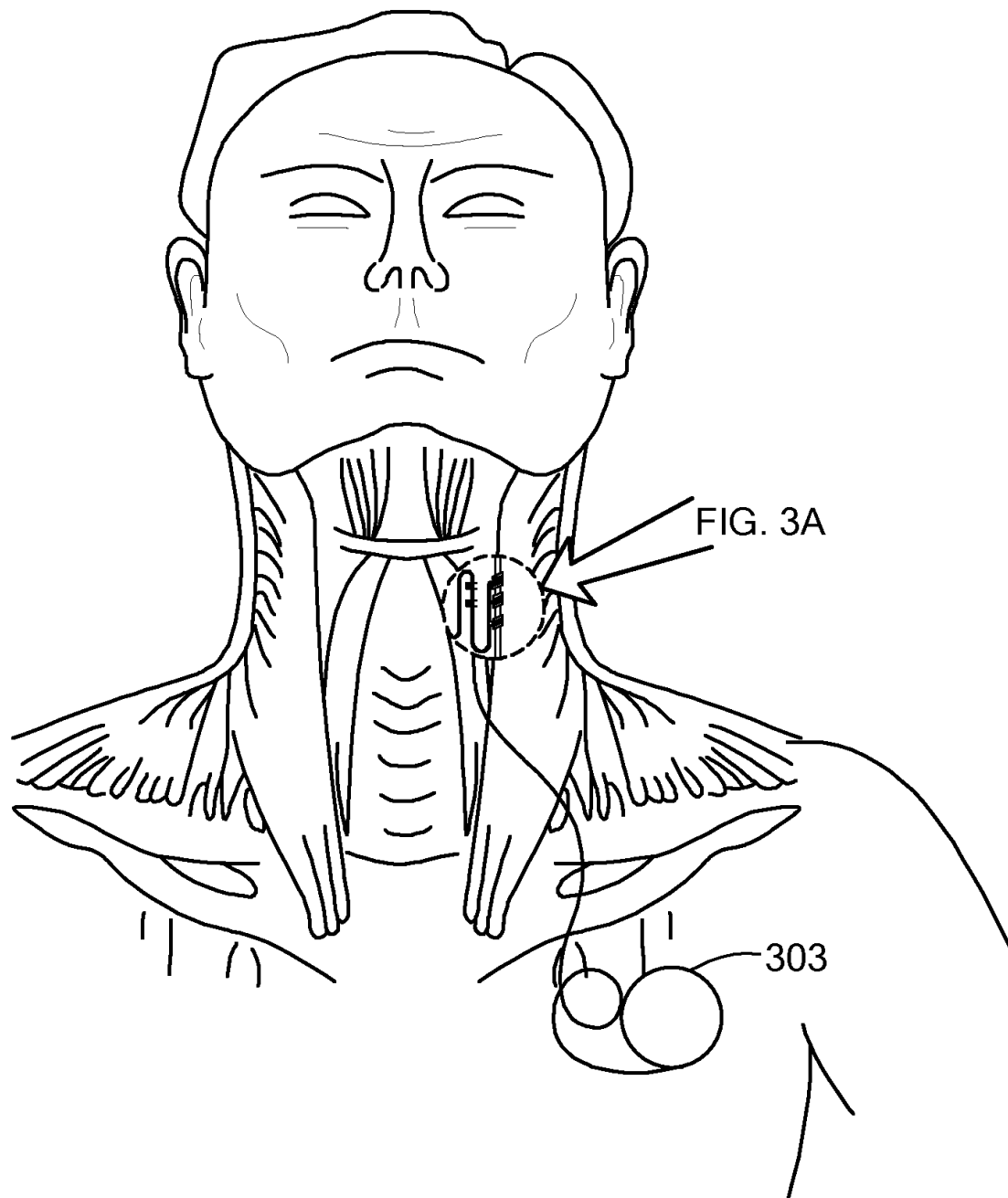
KEHOE THOMAS DAVID

Family 5/18 - FAMPAT - ©Questel

Title

(US20140277272)

Stimulation System and Method for Voice Lift

Images**Publication data including kind & date**

[US2014277272](#)

A1 2014-09-18

US20140277272

**Abstract**

(US20140277272)

A stimulation system and method for providing training therapy to a human subject in order to strengthen a weakened voice

due to aging includes an activating switch configured to generate a first signal, and a processor configured to receive the first signal from the sensing **electrode** and configured to generate at least one stimulation parameter based on the first signal. The system further includes a stimulating **electrode** configured to receive the stimulation parameter from the processor and configured to activate a glottic closure reflex of the subject based on the stimulation parameter by stimulating internal superior laryngeal nerve, glossopharyngeal nerve, or a combination thereof in order to selectively activate vocal cord abductor muscle and vocal cord adductor muscles of the subject.

Inventors

LINDENTHALER WERNER

Latest standardized assignees - inventors removed

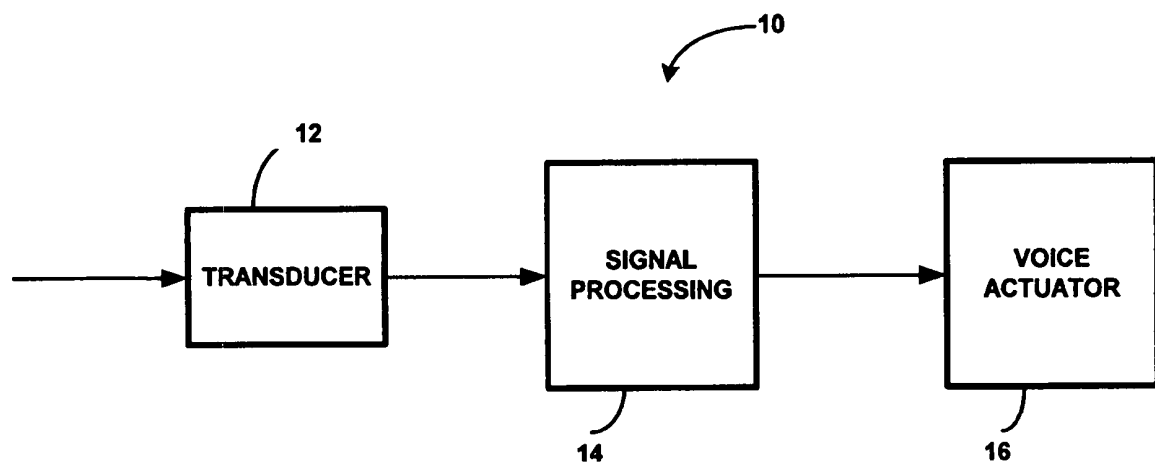
MED EL ELEKTROMEDIZINISCHE GERAETE

Family 6/18 - FAMPAT - ©Questel

Title

(US20050281412)

Voice prosthesis with neural interface

Images**Publication data including kind & date**[US2005281412](#)

A1 2005-12-22

US20050281412

**Abstract**

(US20050281412)

A voice prosthesis includes a voice actuator for generating a signal to be modulated into speech and a neural interface for receiving a signal indicative of neural activity. A signal processing system in communication with both the neural interface and the voice actuator is configured to provide the voice actuator with a control signal representative of the neural activity.

Inventors

HILLMAN ROBERT E

ZEITELS STEVEN M

KOBLER JAMES B

HEATON JAMES T

GOLDSTEIN EHAB A

Latest standardized assignees - inventors removed

MASSACHUSETTS EYE & EAR INFIRMARY

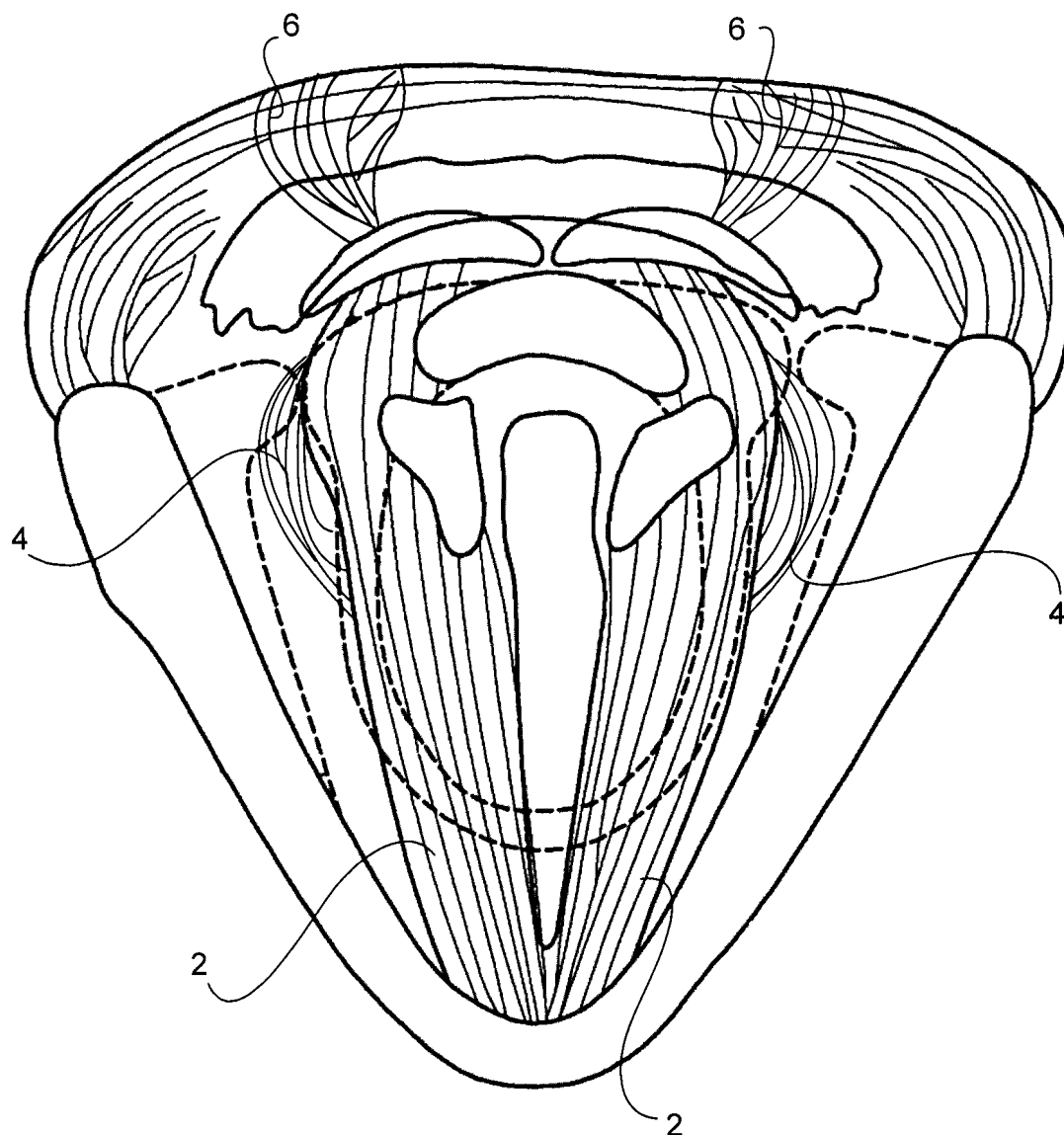
Family 7/18 - FAMPAT - ©Questel

Title

(EP2830703)

Method and apparatus for the treatment of focal dystonia

Images



CA2868856	A1	2013-10-03	CA2868856
CA2868852	A1	2013-10-03	CA2868852
WO2013149214	A1	2013-10-03	WO2013149214
WO2013149213	A1	2013-10-03	WO2013149213
US2013261705	A1	2013-10-03	US20130261705
US2013261699	A1	2013-10-03	US20130261699
US8838252	B2	2014-09-16	US8838252
AU2013237789	A1	2014-10-16	AU2013237789
AU2013237790	A1	2014-10-16	AU2013237790
EP2830703	A1	2015-02-04	EP2830703
CN104363954	A	2015-02-18	CN104363954
CN104363953	A	2015-02-18	CN104363953
US9095707	B2	2015-08-04	US9095707
US2015306400	A1	2015-10-29	US20150306400
EP2830703	A4	2015-11-04	EP2830703
HK1206664	A1	2016-01-15	HK1206664
HK1206665	A1	2016-01-15	HK1206665
US9375576	B2	2016-06-28	US9375576



US2016296756	A1	2016-10-13	US20160296756
CN104363954	B	2017-03-29	CN104363954B
CN104363953	B	2017-05-17	CN104363953B
US9802047	B2	2017-10-31	US9802047
AU2017251678	A1	2017-11-09	AU2017251678
AU2017251677	A1	2017-11-09	AU2017251677
US2018126162	A1	2018-05-10	US20180126162

**Abstract**

(EP2830703)

A method and apparatus for using low levels of electrical stimulation to treat focal dystonia by stimulating the afferent nervous system and/or altering the function of the gamma motor neurons innervating muscles which experience symptomatic spasms. A method and apparatus for treating focal dystonia comprising using a stimulator to provide a stimulating electrical impulse via an **electrode** to one or more muscles such that the impulse does not provide a level of stimulation that exceeds the excitation threshold of the alpha motor neurons innervating the muscle and thus does not cause muscle contractions.

Inventors

PITMAN MICHAEL J

Latest standardized assignees - inventors removed

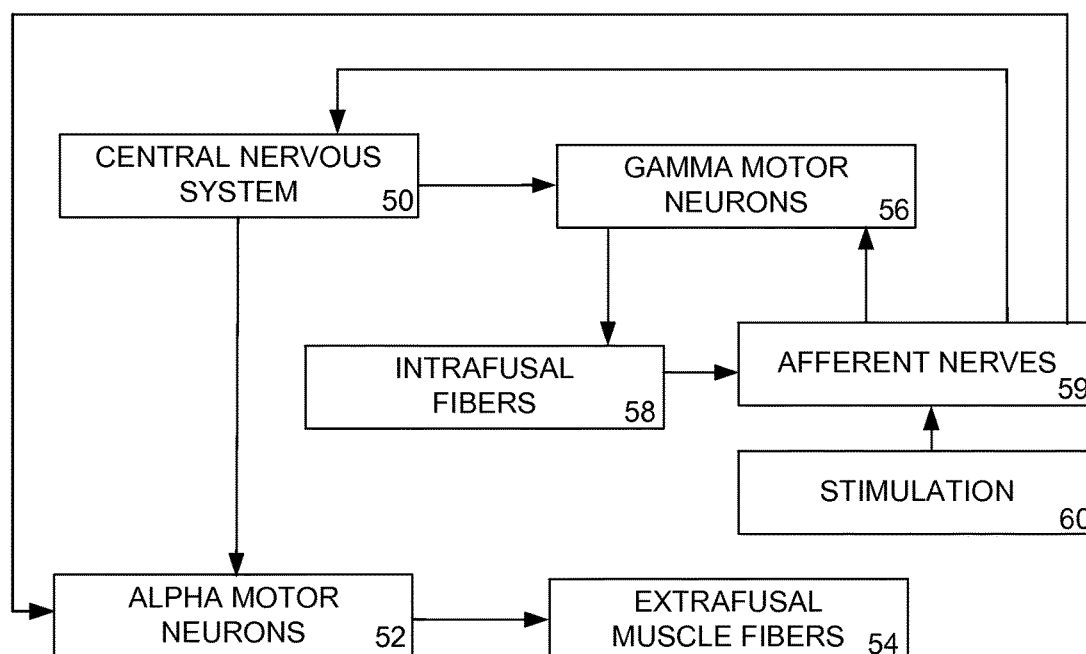
MED EL ELEKTROMEDIZINISCHE GERAETE

Family 8/18 - FAMPAT - ©Questel

Title

(US9707398)

Treatment of spasmodic dysphonia via neuromodulation

Images**Publication data including kind & date**

US2015151129	A1	2015-06-04	US20150151129
US9707398	B2	2017-07-18	US9707398

**Abstract**

(US9707398)

The present disclosure relates to methods and apparatus for the treatment of spasmodic dysphonia, such as methods of treating spasmodic dysphonia that include providing a system that includes a stimulating **electrode** operably connected with a processor configured to set one or more stimulation parameters for an electrical impulse deliverable by said **electrode**, placing the **electrode** in electrical contact with the superior laryngeal nerve, using the processor to set the stimulation parameters such that the electrical impulse causes a level of stimulation that does not exceed the excitability threshold of one or more alpha motor neurons located within the thyroarytenoid muscle; and delivering the electrical impulse to the superior laryngeal nerve.

Inventors

PITMAN MICHAEL J

Latest standardized assignees - inventors removed

MED EL ELEKTROMEDIZINISCHE GERAETE

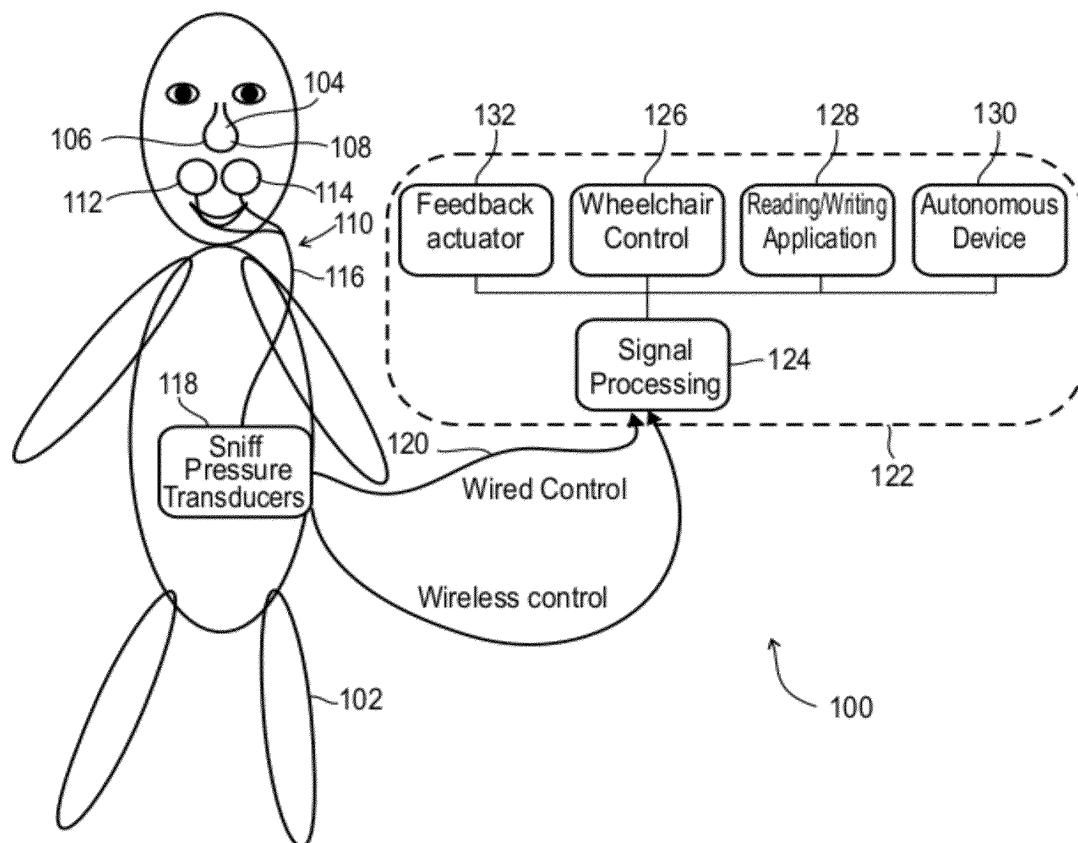
Family 9/18 - FAMPAT - ©Questel

Title

(EP2422263)

Control method, control apparatus and use of the control apparatus, comprising sensing the position of the soft palate.

Images



Publication data including kind & date

WO2010122560	A2	2010-10-28	WO2010122560
CA2755397	A1	2010-10-28	CA2755397
WO2010122560	A3	2010-12-16	WO2010122560
AU2010240501	A1	2011-10-06	AU2010240501
IL215816	A	2012-01-31	IL-215816
KR20120011016	A	2012-02-06	KR20120011016
EP2422263	A2	2012-02-29	EP2422263
US2012052469	A1	2012-03-01	US20120052469
CN102460347	A	2012-05-16	CN102460347



JP2012524596	A	2012-10-18	JP2012524596				
BRPI1006598	A1	2012-11-20	BR201006598				
IL215816	B	2015-07-30	IL-215816				
BRPI1006598	A2	2016-04-12	BR201006598				
BRPI1006598	A2	2016-04-12	BRPI1006598				

Abstract

(EP2422263)

A method of receiving input from a user, comprising measuring a nasal air parameter and generating an instruction for one or both of a device and controller based on said measurement.

Inventors

SOBEL NOAM

WEISSBROD AHARON

SELA LEE

PLOTKIN ANTON

Latest standardized assignees - inventors removed

YEDA RESEARCH & DEVELOPMENT

Family 10/18 - FAMPAT - ©Questel

Title

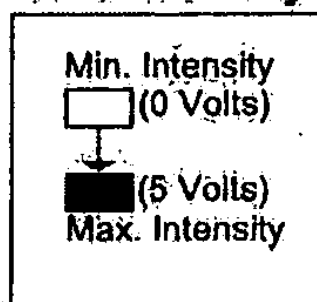
(EP1691766)

Systems and methods for altering vestibular biology

Images

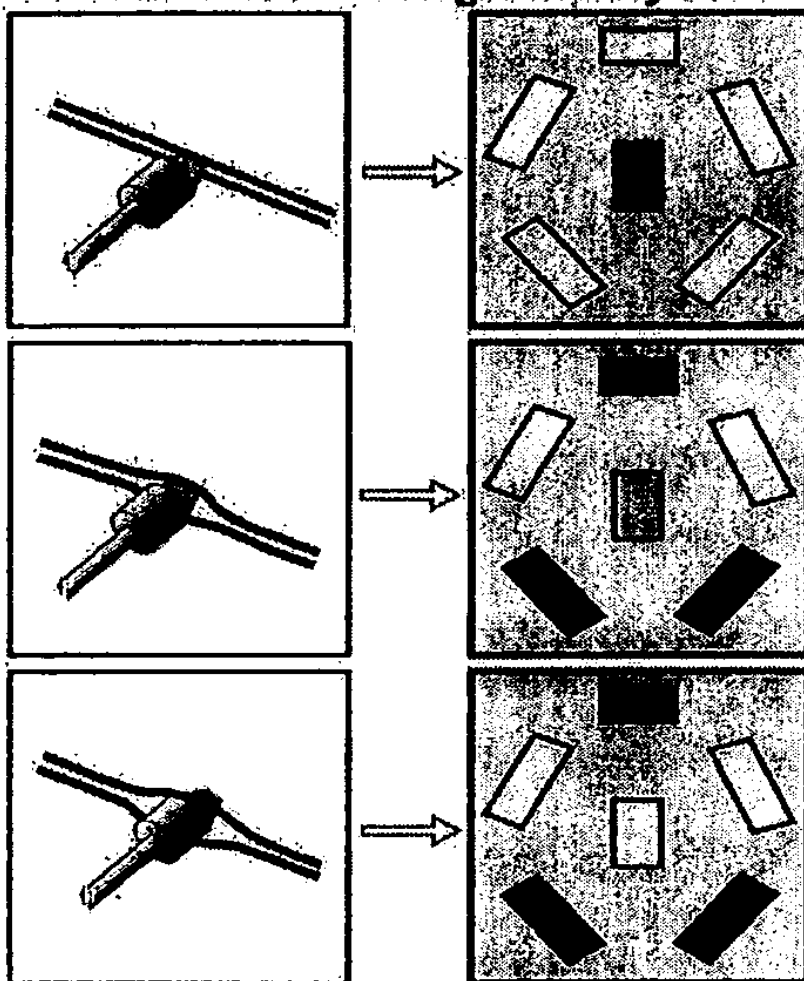
Spatial Tongue Stimulation Example (For 'SLIT' object using the Cone Probe)

Color Intensity Map



Probe Motion

Tongue Array Stimulations



Publication data including kind & date

WO2005051329	A2	2005-06-09	WO200551329
CA2648286	A1	2005-06-09	CA2648286
CA2547445	A1	2005-06-09	CA2547445
US2005240253	A1	2005-10-27	US20050240253
US2006161218	A1	2006-07-20	US20060161218
EP1691766	A2	2006-08-23	EP1691766
US2006241718	A1	2006-10-26	US20060241718
WO2005051329	A3	2007-04-19	WO200551329
JP2007518469	A	2007-07-12	JP2007518469



US2008009772	A1	2008-01-10	US20080009772				
US2008228239	A1	2008-09-18	US20080228239				
CA2547445	C	2009-03-10	CA2547445				
US2009312808	A1	2009-12-17	US20090312808				
US2009312817	A1	2009-12-17	US20090312817				
US2009326604	A1	2009-12-31	US20090326604				
EP1691766	A4	2011-03-23	EP1691766				
US2015290453	A1	2015-10-15	US20150290453				
US2015290454	A1	2015-10-15	US20150290454				

Abstract

(EP1691766)

The present invention relates to systems and methods for management of brain and body functions and sensory perception. For example, the present invention provides systems and methods of sensory substitution and sensory enhancement (augmentation) as well as motor control enhancement. The present invention also provides systems and methods of treating diseases and conditions, as well as providing enhanced physical and mental health and performance through sensory substitution, sensory enhancement, and related effects. In particular, the present invention provides systems and methods for altering vestibular biology to, among other things, treat diseases and conditions or enhance performance related to vestibular functions.

Inventors

TYLER MITCHELL EUGENE

DANILOV YURI PETROVICH

BACH-Y-RITA PAUL

Latest standardized assignees - inventors removed

WICAB

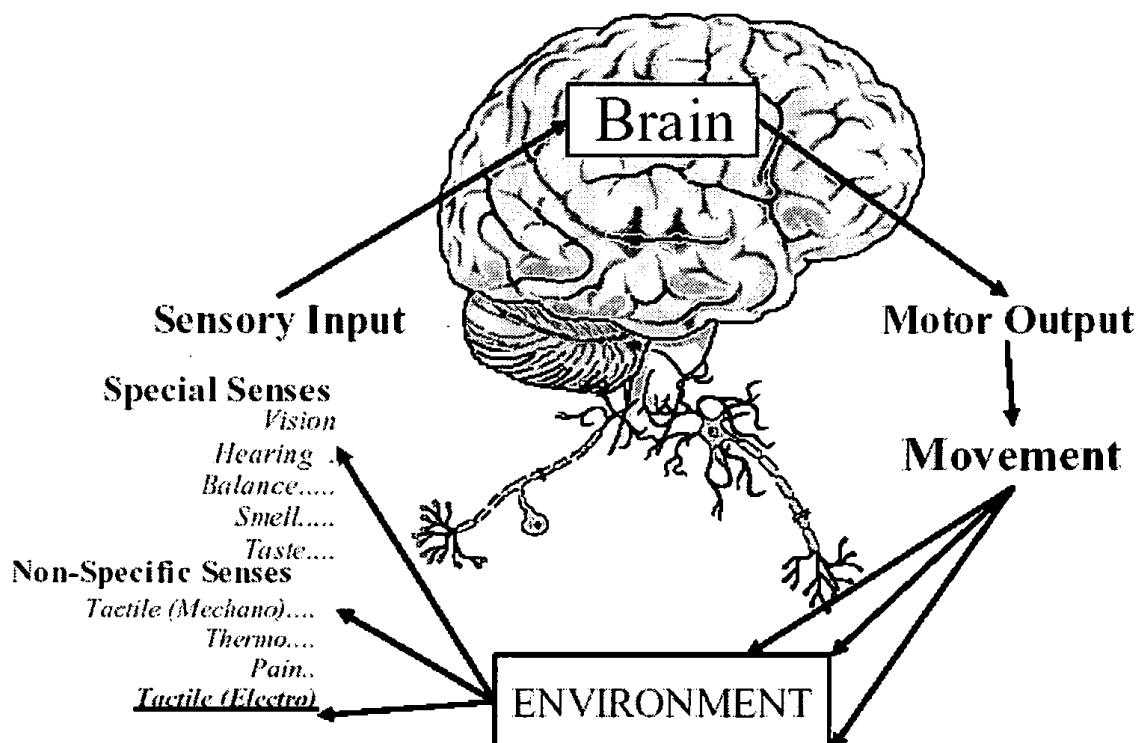
Family 11/18 - FAMPAT - ©Questel

Title

(US20070250119)

Systems and methods for altering brain and body functions and for treating conditions and diseases of the same

Images

**Publication data including kind & date**

US2007250119

A1 2007-10-25

US20070250119

**Abstract**

(US20070250119)

The present invention relates to systems and methods for management of brain and body functions and sensory perception. For example, the present invention provides systems and methods of sensory substitution and sensory enhancement (augmentation) as well as motor control enhancement. The present invention also provides systems and methods of treating diseases and conditions, as well as providing enhanced physical and mental health and performance through sensory substitution, sensory enhancement, and related effects.

Inventors

TYLER MITCHELL E

DANILOV YURI P

BACH-Y-RITA PAUL

BACH-Y-RITA JUANA E

Latest standardized assignees - inventors removed

WICAB

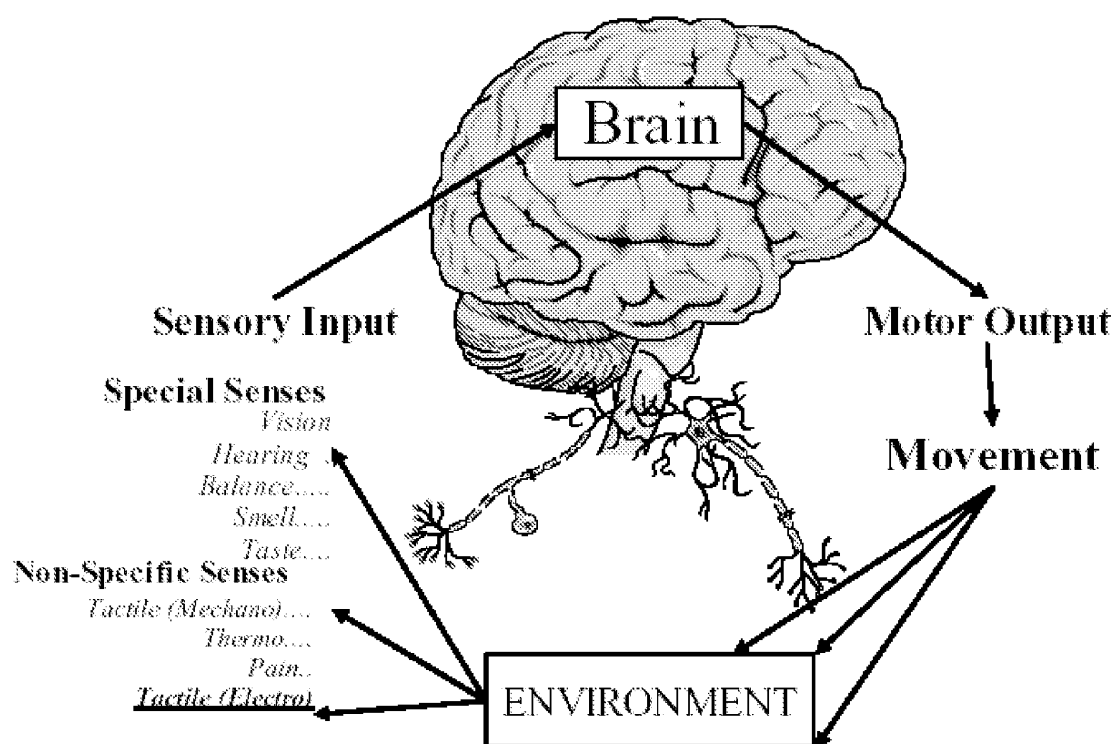
Family 12/18 - FAMPAT - ©Questel

Title

(EP2081636)

Systems and methods for altering brain and body functions and for treating conditions and diseases

Images



Publication data including kind & date

WO2008052166	A2	2008-05-02	WO200852166
WO2008052166	A3	2008-07-03	WO200852166
WO2008052166	A9	2008-09-04	WO200852166
EP2081636	A2	2009-07-29	EP2081636
US2009306741	A1	2009-12-10	US20090306741
EP2081636	A4	2010-12-22	EP2081636



Abstract

(EP2081636)

The present invention relates to systems and methods for management of brain and body functions and sensory perception. For example, the present invention provides systems and methods of sensory substitution and sensory enhancement (augmentation) as well as motor control enhancement. The present invention also provides systems and methods of treating diseases and conditions, as well as providing enhanced physical and mental health and performance through sensory substitution, sensory enhancement, and related effects.

Inventors

HOGLE RICHARD

LEDERER SCOTT

Latest standardized assignees - inventors removed

WICAB

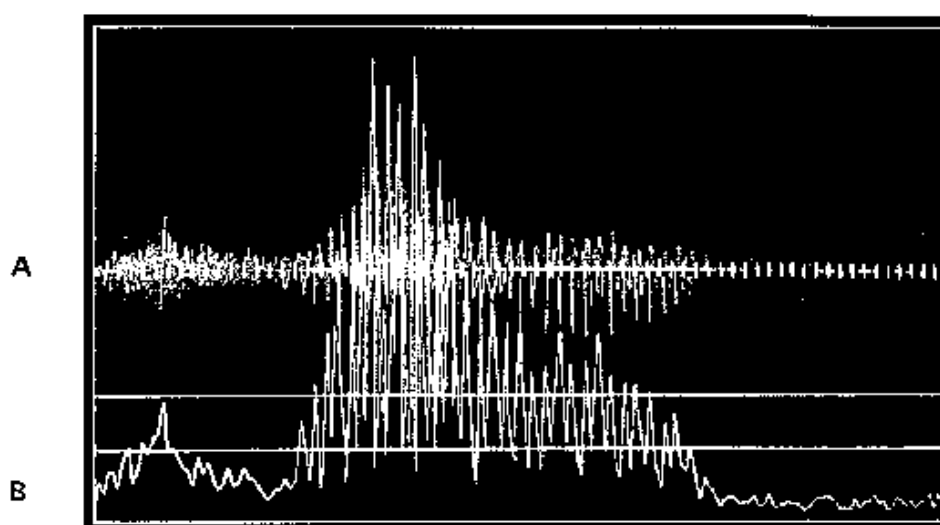
Family 13/18 - FAMPAT - ©Questel

Title

(US6055501)

Counter homeostasis oscillation perturbation signals (chops) detection

Images

Fig. 1**Publication data including kind & date**[US6055501](#)

A 2000-04-25 US6055501

**Abstract**

(US6055501)

A method and apparatus for detecting counter homeostasis oscillation perturbation signals (CHOPS) found within the wave form of human speech that reflects either arousal in the autonomic nervous system or other biological processes. The apparatus is a speech analysis system for obtaining biofeedback information from human speech samples having variable duration. The speech analysis system comprises means for digitizing the human speech samples, storage means for receiving the digitized speech samples from the digitizing means and storing the digitized speech samples, processing means for detecting and analyzing CHOPS in the digitized speech samples and display means for presenting the analyzed speech samples in a visual representation. The speech analysis system may further include transducer means for collecting

and transducing human speech samples into electrical signals and input means for configuring the analysis parameters of the processing means. The present invention does not require any **electrode** or probe attachment from the speech analysis system to a subject. The method provides biofeedback from physiological indicators of stress using the speech analysis system. The method includes recording a human speech sample having variable duration with the transducer means, digitizing the human speech sample with the means for digitizing, storing the digitized speech sample in the storage means, determining CHOPS in the digitized speech sample with the processing means based on pre-determined parameters and identifying relationships between the CHOPS in the digitized speech sample with the processing means.

Inventors

MACCAUGHELTY ROBERT J

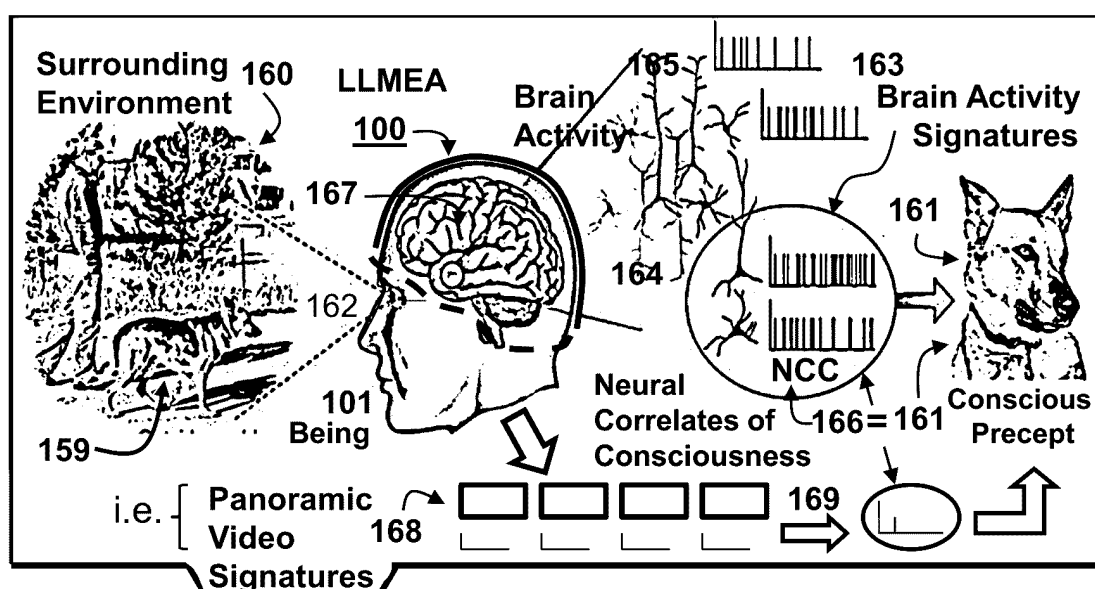
Family 14/18 - FAMPAT - ©Questel

Title

(US20170061034)

Mobile user borne brain activity data and surrounding environment data correlation system

Images



Publication data including kind & date

[US2017061034](#)

A1 2017-03-02

US20170061034



Abstract

(US20170061034)

A mobile user borne brain activity data and surrounding environment data correlation system comprising a brain activity sensing subsystem, a recording subsystem, a measurement computer subsystem, a user sensing subsystem, a surrounding environment sensing subsystem, a correlation subsystem, a user portable electronic device, a non-transitory computer readable medium, and a computer processing device. The mobile user borne system collects and records brain activity data and surrounding environment data and statistically correlates and processes the data for communicating the data into a recipient biological, mechanical, or bio-mechanical system.

Inventors

RITCHEY KURTIS JOHN

RITCHEY KENNETH IRA

Family 15/18 - FAMPAT - ©Questel

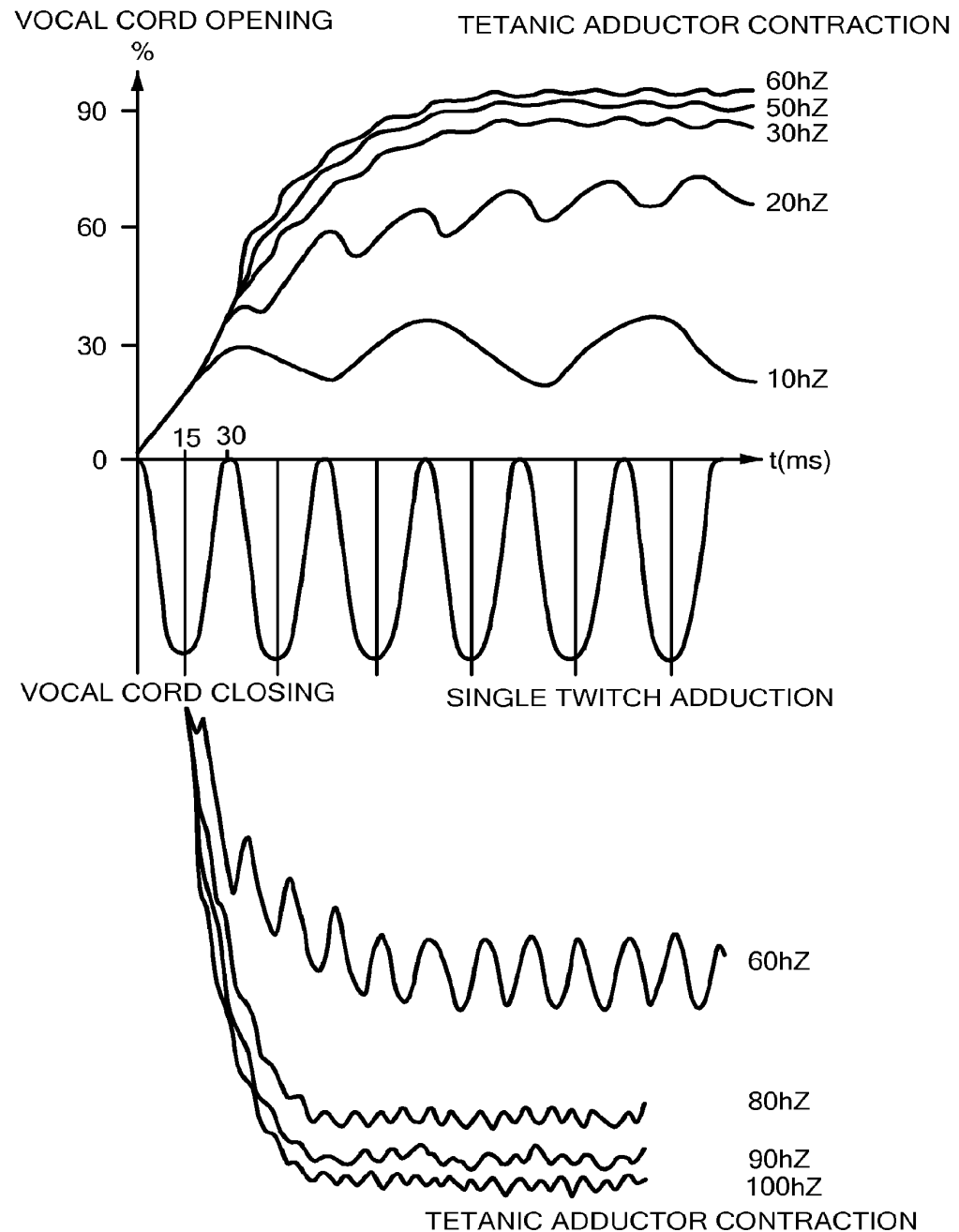
Title

(AU2016202615)

Pacemaker for Unilateral Vocal Cord Autoparalysis

Images

2016202615 26 Apr 20

**FIG 1****Publication data including kind & date**

AU2016202615	A1	2016-05-19	AU2016202615
AU2016202615	B2	2016-11-17	AU2016202615

**Abstract**

(AU2016202615)

A method of treating a human subject having unilateral vocal cord autoparalysis, the method comprising: providing a stimulating **electrode** configured to directly contact a recurrent laryngeal nerve or vagus nerve of the subject; sensing electrical activity of a synkinetically reinnervated dysfunctional muscle of the subject; generating at least one stimulation parameter, using a processor, based on the sensed electrical activity; and stimulating the recurrent laryngeal nerve or vagus nerve, using the stimulating **electrode**, based on the at least one stimulation parameter. A stimulation system is also provided. VOCAL CORD OPENING TETANIC ADDUCTOR CONTRACTION 60Hz 90 50Hz 30Hz 20Hz 10Hz 0 -v - t(ms) VOCAL CORD CLOSING SINGLE TWITCH ADDUCTION 60Hz 80Hz 90Hz 100Hz TETANIC ADDUCTOR CONTRACTION

Inventors

LINDENTHALER WERNER

Latest standardized assignees - inventors removed

MED EL ELEKTROMEDIZINISCHE GERAETE

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Title

(US20110257464)

Electronic Speech Treatment Device Providing Altered Auditory Feedback and Biofeedback

Publication data including kind & date

[US2011257464](#)

A1 2011-10-20 US20110257464



Abstract

(US20110257464)

A device and method for improving speech. One embodiment comprises an apparatus and method for treating stuttering by providing biofeedback to monitor aspects of the user's voice and also providing altered audio feedback (AAF) to induce fluent speech. Biofeedback features include monitoring phonated intervals. AAF features include delayed auditory feedback (DAF), frequency-altered auditory feedback (FAF), and switching the user's voice between his or her left and right ears multiple times per second. The biofeedback controls AAF parameters including volume, which changes smoothly. Bluetooth is also included to connect to wireless microphones and earphones. Another embodiment comprises an apparatus and method for use by persons without speech disabilities for the purpose of improving public speaking by providing their voice back to their ears altered to appear to be in a different emotional state, thus inducing this preferred emotional state in the person speaking.

Inventors

KEHOE THOMAS DAVID

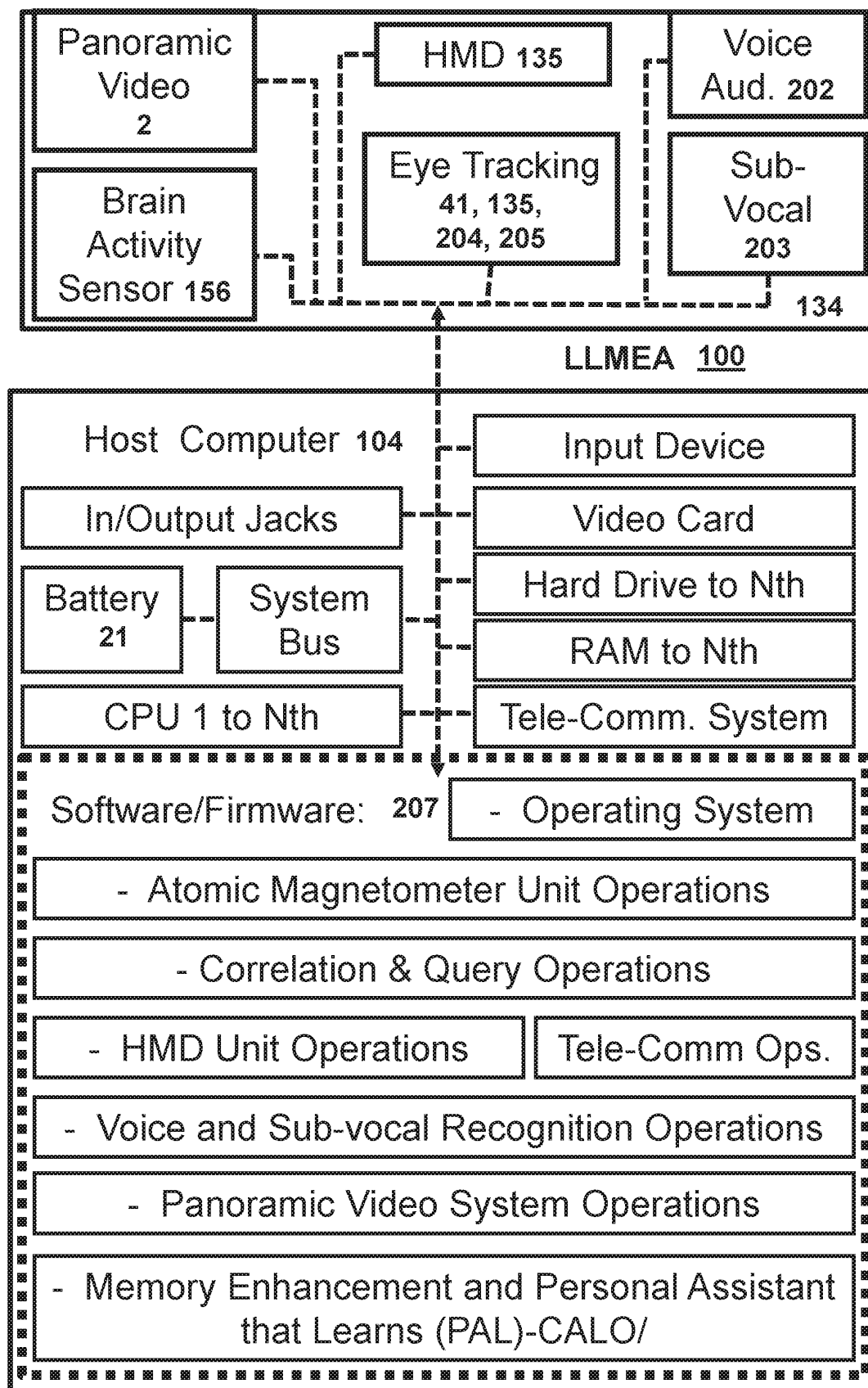
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Title

(US9451899)

Mobile user borne brain activity data and surrounding environment data correlation system

Images

**Publication data including kind & date**

US2015324692

A1 2015-11-12

US20150324692

US9451899

B2 2016-09-27

US9451899

**Abstract**

(US9451899)

A mobile user borne brain activity data and surrounding environment data correlation system comprising a brain activity

sensing subsystem, a recording subsystem, a measurement computer subsystem, a user sensing subsystem, a surrounding environment sensing subsystem, a correlation subsystem, a user portable electronic device, a non-transitory computer readable medium, and a computer processing device. The mobile user borne system collects and records brain activity data and surrounding environment data and statistically correlates and processes the data for communicating the data into a recipient biological, mechanical, or bio-mechanical system.

Inventors

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VIRTUAL VIDEO REALITY BY RITCHEY

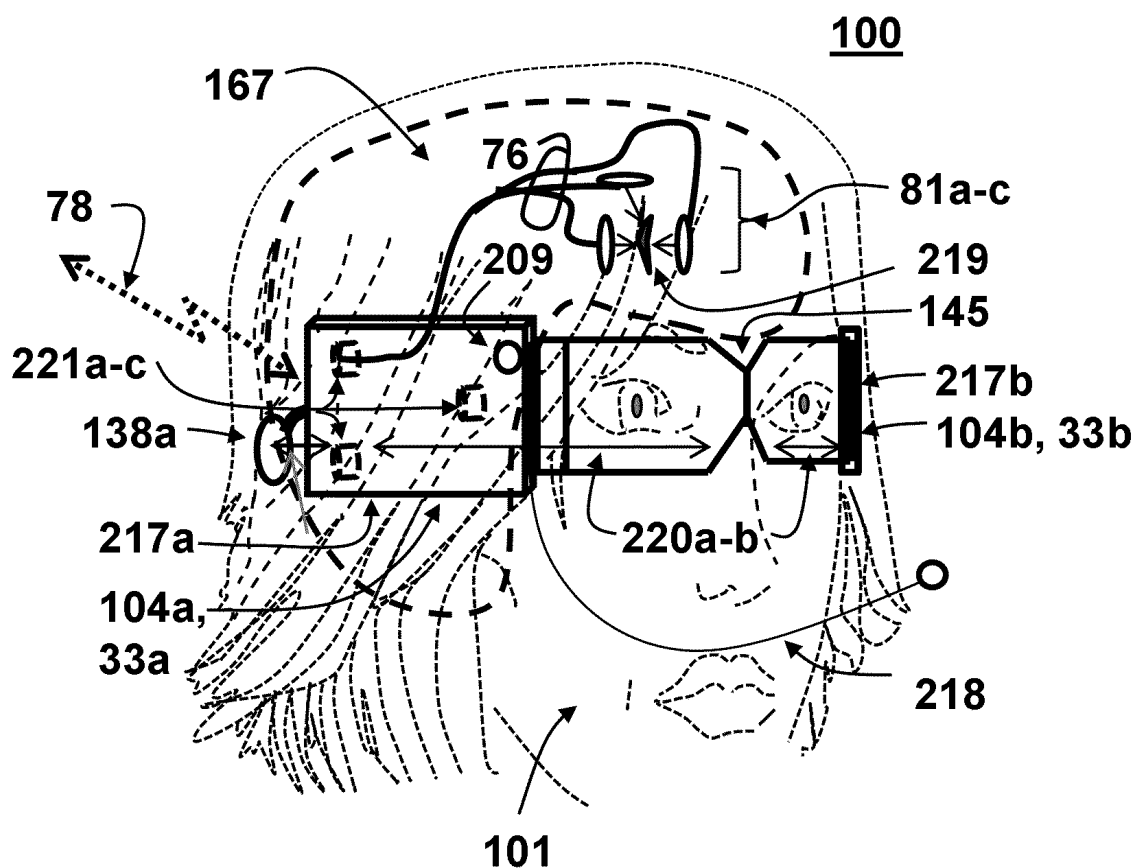
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Title

(US9101279)

Mobile user borne brain activity data and surrounding environment data correlation system

Images



Publication data including kind & date

US2013063550	A1	2013-03-14	US20130063550
US9101279	B2	2015-08-11	US9101279



Abstract

(US9101279)

A mobile user borne brain activity data and surrounding environment data correlation system comprising a brain activity sensing subsystem, a recording subsystem, a measurement computer subsystem, a user sensing subsystem, a surrounding environment sensing subsystem, a correlation subsystem, a user portable electronic device, a non-transitory computer readable medium, and a computer processing device. The mobile user borne system collects and records brain

activity data and surrounding environment data and statistically correlates and processes the data for communicating the data into a recipient biological, mechanical, or bio-mechanical system.

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