

1) Family number: 31497173 (US2002188057A)

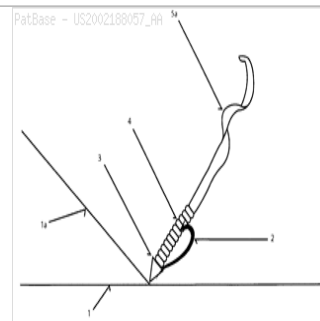
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GELATINOUS ELASTOMER COMPOSITIONS AND ARTICLES FOR USE AS FISHING BAIT

Abstract: Source: US2002188057A A soft gelatinous elastomer composition and article useful as fishing bait formed from one or a mixture of two or more of a poly(styrene-ethylene-butylene-styrene) block copolymer(s) and one or more plasticizers being in sufficient amounts to achieve a gel rigidity of from about 20 gram Bloom to about 800 gram Bloom

Probable Assignee: APPLIED ELASTOMERICS INC

Earliest Publication Date: 19830118



2) Family number: 8402251 (US5360971A)

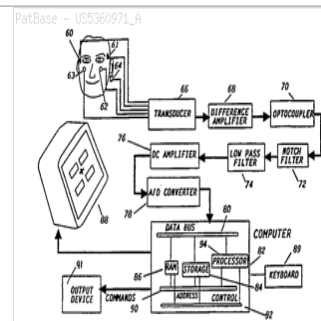
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APPARATUS AND METHOD FOR EYE TRACKING INTERFACE

Abstract: Source: US5360971A An eye tracking interface system for generating communication and control functions as a result of pre-defined eye gestures is disclosed. The system includes a detecting device adapted to detect bio-electromagnetic signals generated by eye movements. A first processor receives the detected bio-electromagnetic signals, and generate tokens corresponding to said pre-defined eye gestures. A second processor receives the tokens, and generates command signals based on a protocol correlating tokens to desired command signals. Thereafter, a user interface responds to said command signals, and provides control functions in response to said command signals.

Probable Assignee: RESEARCH FOUNDATION STATE UNIV OF NEW YORK

Earliest Publication Date: 19931014

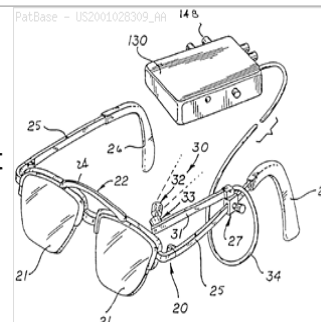


3) Family number: 28099653 (US2001028309A)

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SYSTEM AND METHOD FOR MONITORING EYE MOVEMENT

Abstract: Source: US2001028309A Apparatus for monitoring movement of a person's eye, e.g., to monitor drowsiness. The system includes a frame that is worn on a person's head, an array of emitters on the frame for directing light towards the person's eye, and an array of sensors on the frame for detecting light from the array of emitters. The sensors detect light that is reflected off of respective portions of the eye or its eyelid, thereby producing output signals indicating when the respective portions of the eye is covered by the eyelid. The emitters project a reference frame towards the eye, and a camera on the frame monitors movement of the eye relative to the reference



frame. This movement may be correlated with the signals from the array of sensors and/or with signals from other sensors on the frame to monitor the person's level of drowsiness.

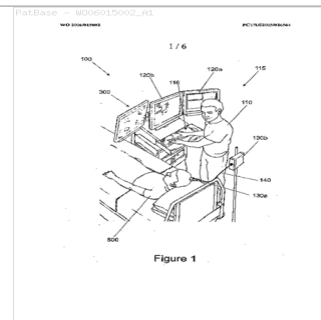
Probable Assignee: EYEFLUENCE INC**Earliest Publication Date:** 19980505

4) Family number: 32610374 (WO06015002A1)

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BIOLOGICAL INTERFACE SYSTEM WITH CLINICIAN CONFIRMATION OF PARAMETER CHANGES

Abstract: A system and method for a biological interface system (100) that processes multicellular signals of a patient (500) and controls an external device (300) is disclosed. The system includes a sensor that detects the multicellular signals and a processing unit for producing the control signal based on the multicellular signals. The system further includes a permission routine that requires an approval of a clinician or other specific operator of the system when specific system parameters are changed. Embedded automatic and semi-automatic calibration and configuration systems are also disclosed.

**Probable Assignee:** CYBERKINETICS NEUROTECHNOLOGY

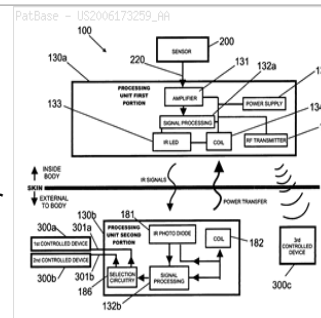
Earliest Publication Date: 20060209

5) Family number: 32840353 (US2006173259A)

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BIOLOGICAL INTERFACE SYSTEM

Abstract: Source: US2006173259A A system and method for an improved biological interface system that processes multicellular signals of a patient and **controls** one or more devices is disclosed. The system includes a sensor that detects the multicellular signals and a processing unit for producing the **control** signal based on the multicellular signals. The system may include improved communication, self-diagnostics, and surgical insertion tools.



Probable Assignee: BRAINGATE CO LLC

Earliest Publication Date: 20060420

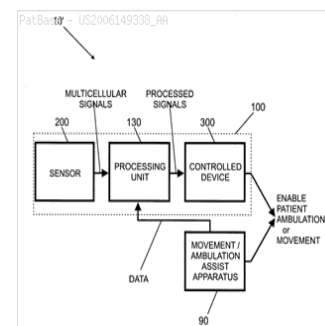
6) Family number: 33102350 (US2006149338A)

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NEURALLY CONTROLLED PATIENT AMBULATION SYSTEM

Abstract: Source: US2006149338A Various embodiments of an ambulation system and a movement assist system are disclosed. For example, an ambulation system for a patient may comprise a biological interface apparatus and an ambulation assist apparatus. The biological interface

apparatus may comprise a sensor having a plurality of **electrodes** for detecting multicellular signals, a processing unit configured to receive the multicellular signals from the sensor, process the multicellular signals to produce a processed signal, and transmit the processed signal to a **controlled** device. The ambulation assist apparatus may comprise a rigid structure configured to provide support between a portion of the patient's body and a surface. Data may be transferred from the ambulation assist apparatus to the biological interface apparatus.



Probable Assignee: BRAINGATE CO LLC

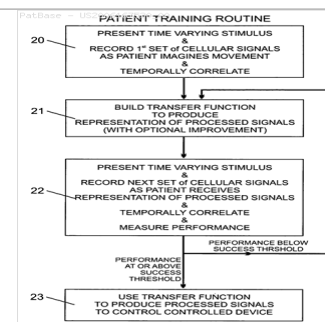
Earliest Publication Date: 20060706

7) Family number: 33109900 (US2006167530A)

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PATIENT TRAINING ROUTINE FOR BIOLOGICAL INTERFACE SYSTEM

Abstract: Source: US2006167530A Various embodiments of a biological interface system and related methods are disclosed. The system may comprise a sensor comprising a plurality of **electrodes** for detecting multicellular signals emanating from one or more living cells of a patient and a processing unit configured to receive the multicellular signals from the sensor and process the multicellular signals to produce a processed signal. The processing unit may be configured to transmit the processed signal to a **controlled** device that is configured to receive the processed signal. The system is configured to perform an integrated patient training routine to generate one or more system configuration parameters that are used by the processing unit to produce the processed signal.



Probable Assignee: BRAINGATE CO LLC

Earliest Publication Date: 20060713

8) Family number: 33208464 (US2006241356A)

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BIOLOGICAL INTERFACE SYSTEM WITH GATED **CONTROL** SIGNAL

Abstract: Source: US2006241356A Various embodiments of a biological interface system and related methods are disclosed. The biological interface system may comprise a sensor comprising a plurality of **electrodes** for detecting multicellular signals emanating from one or more living cells of a patient, a processing unit configured to receive the multicellular signals from the sensor and process the multicellular signals to produce a processed signal, and a signal gate configured to receive the processed signal from the processing unit and an alternative signal generated by the system, the signal gate being configured to transmit a **control** signal to a **controlled** device based on either the processed signal or the alternative signal. A monitoring unit may receive system data and process the system data to produce a

system status signal. The system status signal may be used to determine which of the processed signal and the alternative signal is to be used as the **control** signal.

Probable Assignee: BRAINGATE CO LLC

Earliest Publication Date: 20060817

9) Family number: 67530419 (IN201621012703A)

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BRAIN CONTROLLED SMART WHEELCHAIR

Abstract: Source: IN201621012703A The invention uses the Brain waves, digitizes and differentiates in to the attention and meditation frequency 3 Hz to 40 Hz range than uses attention for the motion of the wheel chair forward, reverse, left and right which is in the range of 12 to 42Hz, uses the meditation signals for voice conversion which is low frequency 3 Hz to 12 Hz. Also when the **eye** blinks 2 times the mode change from attention to meditation and vice versa and 3 blink for the solenoid break, also has a range sensor for the abstract avoidance system, a smart UI. a self configured algorithm, adjustable and a unique display and a range sensor for abstract advice purpose.

Probable Assignee: PRASAD AJAYKUMAR A

Earliest Publication Date: 20171117

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