GSRtDCs Phone/PC Patent Application

Field of the invention

This invention is of establishing a cybernetic safe transcranial direct current micro-current autofocusing loop by stimulating the body with a safe micro-current transcranial direct current stimulation and measuring the reactive body electric skin resistance potentials and then a computer calculates the next stimulation to maximize safety and efficacy. This is known as GSRtDCs (Galvanic Skin Resistance transcranial Direct Current stimulation).

This invention relates to an application of a safe micro-current from a cell-phone headphone or PC output to the forehead to produce a resistance reaction that will be read by the microphone inputs of the cell-phone or PC Input. This will constitute a GSR (Galvanic Skin Resistance) measure. We need to apply a micro-current to measure the resistance of the micro-current. This is a feature of biofeedback but it is done originally of the cell-phone/PC using the phone/PC operations of output / input and analyzed by software in our telephone app or PC.

The current is applied to the frontal eminence of the forehead and can thus produce a safe direct micro-current trans-cranial stimulation (tDCs). The ground is on a silver necklace or left graphite impregnated ankle strap and thus there is no sedation of brain function only brain function enhancement.

Background of the Invention

Micro-current Cranial Electro Stimulation MCES is a new advance in Cranial Electro Stimulation CES and energetic medicine. "Electrotherapy" has been in use for over 2000 years, as shown by the clinical literature of the early Roman physician, Scribonius Largus, who wrote in the Compositiones Medicæ of 46 AD that his patients should stand on a live black torpedo fish for the relief of a variety of medical conditions, including gout and headaches. Claudius Galen (131 - 201 AD) also suggested using the shocks from the electrical fish for medical therapies. There is evidence of electro-therapy in ancient Babylon and Egypt. The body works on electro signals and electro stimulation of low current helps homeostasis.

Low intensity electrical stimulation is believed to have originated in the studies of galvanic currents in humans and animals as conducted by Giovanni Aldini, Alessandro Volta and others in the 18th century, Aldini had experimented with galvanic head current as early as 1794 (upon himself) and reported the successful treatment of patients suffering from melancholia depression using direct low-intensity currents in 1804.

Modern research into low intensity electrical stimulation of the brain was begun by Leduc and Rouxeau in France (1902). In 1949, the Soviet Union expanded research of CES to include the treatment of anxiety as well as sleeping disorders.

In the 1960s and 1970s, it was common for physicians and researchers to place electrodes on the eyes, thinking that any other electrode site would not be able to penetrate the cranium. It was later found that placing electrodes on the forehead was far more convenient, and quite effective.

CES was initially studied for insomnia and called electro-sleep therapy; it is also known as Cranial-Electro Stimulation and Transcranial Electrotherapy.
One of the mechanism of action for CES is that the pulses of electric current increase the ability of neural cells to produce serotonin, dopamine DHEA endorphins and other neurotransmitters stabilizing the neurohormonal system. Since a slight stimulation of a pulsed milliamp current increases osmosis it is shown that neurhormones work better from the increased osmosis.

It has been demonstrated that through CES, an electric current is engrossed upon the hypothalamic region; during this process, CES electrodes are placed near to the face with the ground at the lower body.

Current research shows an increase of the brain's levels of serotonin, norepinephrine, and dopamine, and a decrease in its level of cortisol. After a MCES treatment, users are in an "alert, yet relaxed" state, characterized by increased alpha and decreased delta brain waves as seen on EEG.

In 1972, a specific form of addiction release CES was developed by Dr. Margaret Patterson, providing small pulses of electric current across the head to ameliorate the effects of acute and chronic withdrawal from addictive substances. She named her treatment "NeuroElectric Therapy (NET)".

I worked with Margaret and treated rock star Pete Townsend for drug addiction. This is why the SCIO system has had the MCES capacity built in.

The Eductor is a descendent of the EPFX system US FDA registered in 1989 still in registered for sale in America. Registered for among other things as a GSR unit. Since 1989 we have sold over 31,000 such systems under the registered name of EPFX, QXCI, SCIO and Eductor. There have been well over 500,000,000 patient visits with all getting some MCES, and not one reported case of any significant risk. Over 200 studies and articles have been written and published on these systems and no report of any risk. It has passed all safety tests since 1989 and all risk analysis has proved it to be insignificant risk.

The systems outlined have a potential of 0-4 volts which is beneath the human threshold of perception, and 0-7 milliams which makes it safe and subtle and undetectable.

For over 26 years reports of stress reduction, relaxation, anxiety reduction, emotional balance, addiction release, insomnia reduction and sleep induction have been reported from the users and doctors.
CLINICAL EVALUATION

EDUCTOR

measures & treats

Volts and Oscillations (EMG, EEG)
Amps and Oscillations (ECG)
Resistance (GSR)
Hydration
Oxidation (Redox potential)
Ph acid vs alkalinity
Reactivity evoked potential to voltammetric fields of substances (TVEP) over 228,000 measures a second of these energetic factors

Brain wave and emotions with (MCES)
Pain with (MENS) (TENS)
Trauma or wounds (EWH)
Electro Weakness Ph,
Redox disorder (VARHOPE Correction)
Trickle charge the body electric

All designed to detect + reduce Electro-stress and Balance the Body Electric Automatically

If you need more information on the SCIO and purchase details please get in touch with us
web: www.qxsubspace.com
e-mail: info@qxsubspace.com
The Eductor has a second waveform generator that can further intensify the CES effect. All this was done with a cybernetic loop technology guided by the patient body electric reactions to the stimuli. Thus we can further intensify the CES effect over older antiquated non-cybernetic technology.

For a more complete review of the science and research please review this document and hyperlinks.


http://gsrtdcs-school-intellect-sport-enhancement.com

**Objects of the Invention**

The object is to establish a cybernetic loop of stimulating the body with a safe transcranial direct current micro-current stimulation and then measuring body electric measure of skin resistance, GSR, to be used as a way of calculating the next micro-current stimulation. This is a GSRtDCs device. The object is to produce a GSRtDCs device from a cell-phone/PC. We send in a micro-current with the phone speaker’s input connected to the skin on the forehead frontal eminence. Then with the microphone input we receive changes. The telephone app deceivers and controls the process. The micro-current GSR biofeedback signal will produce reactionary signals to autofocus therapies and the current stimulation also produces transcranial stimulation that can enhance intellect and memory.

**Summary of the Invention**

To measure a Galvanic Skin Resistance (GSR) we need to apply a voltammetric signal. Then we measure the resistance or reactivity to the electronic signal. Since our modern mobile telephone can send out an electronic signal sand then receive an electronic signal we can design a hardware harness system along with a special software to allow our telephone to do GSR.
GSRtDCs is a process of using the measurement of GSR on the forehead (trans-cranially), using a Direct Current (micro-current) stimulation pulse. Hence GSRtDCs. This has been shown to promote osmosis, intellect, insight, and other functions. [http://gsrtdc-school-intellect-sport-enhancement.com](http://gsrtdc-school-intellect-sport-enhancement.com)

It is the purpose of this patent application to outline the device for the Eductor Mobile Phone/PC GSRtDCs Device. We will make a headband to hold the 2 stimuli contacts to the frontal eminence (points A + B) of the forehead and measure point (point C) in the center of the forehead. The PC use will include ankle and wrist straps. These contacts points will be made of conductive rubber impregnated with graphite. Thus making a carbon connection on the skin.

The ground will be around the neck in the form of some sort of silver necklace. The PC use will have a ground on the left ankle. The carbon electrode with the body as an electrolyte and another silver electrode will make dissimilar metals separated by an electrolyte which will produce an electro-potential. The strength of the electrolyte or the mineral balance of the body will affect the readings of the measure.

As we stimulate the skin with a voltammetric signature of an item at point A + B, we will get an immediate reaction from point C. This we call TVEP or Transcutaneous Voltammetric Evoked Potential.
The headband will have 5 turns of wire clockwise and 5 turns of wire counter clockwise to produce a scalar non-hertzian field into the person.

*Five turns of copper wire clockwise and five equal turns counterclockwise to make a caduceus coil in the headband to make a scalar field into the head*

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**Headphones Jack**
- output to headband
- 5 circles clockwise, 5 counter clockwise
- then to harness connection A  B

**Microphone input Jack**
- connected to Headband point C

*Both Output and Input Jack Grounds are connected to the silver necklace*

**A+B are graphite impregnated rubber contacts to forehead**

*We Send in Electro-Stimuli from the Headphone Jack (pt A+B), and Measure the Reaction thru the microphone Jack (pt C)*

Thus we establish a cybernetic loop to self-adjust therapy and autofocus the stimulation effects.
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Microphone input jack connected to headband point C

Both output and input jack grounds are connected to the silver necklace.
References:

1. ^ a b 21CFR882.5800, Part 882 (“Neurological Devices”)
2. ^ a b Smith RB, Cranial Electrotherapy Stimulation: Its First Fifty Years


32. FDA medical device classifications


