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(54) Title: METHOD AND APPARATUS FOR PRODUCING QUANTUM ENTANGLEMENT AND NON-LOCAL EFFECTS
OF SUBSTANCES

(57) Abstract: A method and apparatus are disclosed which produce quantum entanglement and non-local effects of various sub-
stances on responsive targets such as biological and/or chemical systems through quantum entanglement. In one broad embodiment,
the apparatus includes a quantum entanglement generating source, said source emitting a plurality of quantum- entangling members
such as photons when said source operates; and a substance disposed adjacent to said source, said substance being responsive to said
members; such that when said source emits said members which pass through said substance and a biological system, said members
first quantum-entangle with quantum entities in said substance, then travel to said biological system such as a human body and sub-
sequently entangle with quantum entities inside the biological system producing non-local effect of the substance on said biological
system through quantum entanglement.



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METHOD AND APPARATUS FOR PRODUCING QUANTUM ENTANGLEMENT AND NON-LOCAL
EFFECTS OF SUBSTANCES

DESCRIPTION

[Para 1] This application claims the benefit of U.S. Provisional Application No. 60/767,009 filed Feb. 27, 2006.

FIELD OF THE INVENTION

[Para 2] The invention herein relates to method of producing quantum entanglement, non-local effects of substances through quantum entanglement on responsive targets such as biological and chemical systems, to apparatus for such productions, and to method of using the non-local effects for beneficial purposes.

BACKGROUND OF THE INVENTION

[Para 3] Many experiments have shown that quantum entanglement is physically real (see Aspect, A., Dalibard, J., & Roger, G. Experimental test of Bell's inequalities using time-varying analyzers. Phys. Rev. Lett. 49, 1804-1807 (1982)). Indeed, it is ubiquitous in the microscopic world and manifests itself macroscopically under some circumstances (see Ghosh, S., Rosenbaum, T. F., Aeppli, G. & Coppersmith, S. N. Entangled quantum state of magnetic dipoles. Nature 425, 48-51 (2003)). Further, photons are intrinsically quantum objects and natural long-distance carriers of information in both classical and quantum communications (Julsgaard, B., Sherson, J., Cirac, J. I., Fiurasek, J. & Polzik, E. S. Experimental demonstration of quantum memory for light. Nature 432, 482-485 (2004)). Indeed, quantum spins of photons and electrons have now been successfully entangled in

various ways for purposes of quantum computation (see Matsukevich, D. N. & Kuzmich, A. Quantum state transfer between matter and light. *Science* 306, 663–666 (2004)).

[Para 4] However, the essence and implications of quantum entanglement are still hotly debated and largely unknown. For example, it is commonly believed that quantum entanglement alone cannot be used to transmit binary or classical information. Further, despite of the fact that all interactions in biological systems at molecular and sub-molecular levels are quantum interactions in nature, it is commonly believed that quantum effects do not play any roles in biological functions such as perception due to quantum decoherence (see Tegmark, M. The importance of quantum decoherence in brain processes. *Phys. Rev.*, 61E: 4194 (2000)).

[Para 5] My invention and discovery were made against such background. No process has previously been known which can produce non-local effects of substances through quantum entanglement on responsive targets such as biological or chemical systems, so that beneficial effects of the said substances can be delivered through quantum-entangling media such as photons of various sources.

SUMMARY OF THE INVENTION

[Para 6] I have now invented apparatus and method which produce quantum entanglement, and non-local effects of substances through quantum entanglement on responsive targets such as biological and chemical systems.

[Para 7] The subject invention is originated from my recent research on brain functions and nature of quantum entanglement. I have theorized with my collaborator that nuclear and/or electronic spins inside brain play important roles in certain aspects of brain functions such as perception (Hu, H. P., & Wu, M. X. Spin-mediated consciousness theory. *Medical Hypotheses* 63, 633–646 (2004); also see arXiv e-print quant-ph/0208068 (2002)).

I have thought that one might be able to test this theory by first attempting to entangle these spins with those of a substance such as a general anesthetic through interactions with photons and then observing the resulting brain effects such attempt may produce. I have further thought that the suggested experiment would be feasible if quantum entanglement implies genuine interconnectedness and inseparableness of once interacting quantum entities and is able to influence biological and/or chemical processes. Indeed, instead of armchair debate on how the suggested experiments might not work, I just went ahead and carried out the experiments with the assistance of my collaborator.

[Para 8] The subject invention is therefore based on my realizations that (1) quantum entanglement means genuine interconnectedness and inseparableness of once interacting quantum entities and can be directly sensed and utilized by the entangled quantum entities; (2) it can persist in biological, chemical and other systems at room and higher temperatures despite of quantum decoherence; and (3) it can influence chemical and biochemical reactions, other physical processes and micro- and macroscopic properties of all forms of matters. Therefore, it can be harnessed and developed into useful technologies to serve the mankind in many areas such as health, medicine and even recreation besides the already emerging fields of quantum computation.

[Para 9] For example, using the apparatus and method developed in this invention I have discovered that applying magnetic pulses to a biological system such as the human brain when a substance such as a general anesthetic was placed in between caused the brain to feel the effect of said anesthetic for several hours after the treatment as if the test subject had actually inhaled the same.

[Para 10] For another example, using the apparatus and method developed in this invention I have further discovered that drinking water exposed to magnetic pulses, laser light, microwave or even flashlight when a substance such as a general anesthetic was

placed in between also caused the brain to feel the effect of said anesthetic in various degrees as if the test subject had actually inhaled the same.

[Para 11] Further, I have verified as detailed below that said biological effect was the consequence of quantum entanglement between quantum entities inside the biological system such as the human brain and those of the substance under study induced by the photons of the magnetic pulses, laser light, microwave or flashlight.

[Para 12] Key to the present invention is a quantum-entanglement apparatus which includes a quantum-entanglement generating source, said source emitting a plurality of quantum-entangling members such as photons when said source operates; and a substance disposed adjacent to said source, said substance being responsive to said members; such that when said source emits said members which pass through said substance, said members quantum-entangle with said substance.

[Para 13] In one broad embodiment, the invention provides an apparatus that directly produces non-local effects of various substances such as medications on responsive targets such as biological or chemical systems through quantum-entangling members such as photons.

[Para 14] In another broad embodiment, the invention provides an apparatus that produces media such as water which is quantum-entangled with various substances such as medications through quantum-entangling members such as photons, the media so produced being able to induce non-local effects of said substances on various responsive targets such as biological or chemical systems when said targets are treated with said media.

[Para 15] In yet another broad embodiment, the invention provides an apparatus that produces two or more quantum-entangled media through quantum-entangling members such photons.

[Para 16] In yet another broad embodiment, the invention provides a method for directly producing non-local effects of various substances such as medications on various responsive targets such as biological or chemical systems.

[Para 17] In yet another broad embodiment, the invention provides a method for producing a medium such as water which is quantum-entangled with a substance such as a medication.

[Para 18] In yet another broad embodiment, the invention provides a method for producing non-local effects of various substances such as medications on various responsive targets such as biological or chemical systems through physically treating the said responsive targets with said media such as water which are quantum-entangled with said substances such as medications.

[Para 19] In yet another broad embodiment, the invention provides a method for producing two or more quantum-entangled media through applied or naturally occurring photons or other means.

[Para 20] In yet another broad embodiment, the invention provides a method for remotely producing non-local effects of various substances such as medications on various responsive targets such as biological, chemical and other systems through two parts of a quantum-entangled medium with one part being applied to said responsive targets and another part being entangled with the said substances such as medications through quantum-entangling members such as photons at a remote location of arbitrary distance.

[Para 21] In yet another broad embodiment, the invention provides a method for communicating between two remote locations through two parts of a quantum-entangled medium with one part being applied to a responsive target such as a particular biological, chemical or other system at one location and a second part being subsequently entangled

with a particular substance representing a particular message through quantum-entangling members such as photons at a remote location of arbitrary distance.

[Para 22] In yet another broad embodiment, the invention provides a method for quantum-entangling two responsive targets such as two biological systems for beneficial purposes through two parts of a quantum-entangled medium with one part being physically applied to one biological system and a second part being physically applied to a second system.

[Para 23] In yet another broad embodiment, the invention provides a method for directly quantum-entangling two responsive targets such as two biological systems for beneficial purposes through quantum-entangling members such as photons.

[Para 24] One benefit of the present invention is that a substance such as a medication can be repeatedly used to obtain a beneficial effect on a biological system without the said biological system physically consuming the said substance. A second benefit of the present invention is that the beneficial effect of a substance such as a medication can be, in one broad embodiment, delivered to a biological system such as a patient from a remote location of arbitrary distance. A third benefit of the present invention is that two parts of a quantum-entangled medium with one part being physically at one location and a second part being physically at another location of arbitrary distance can be, in one broad embodiment, used to transmit an encoded message.

[Para 25] My invention may be more completely understood by reference to the following detailed description considered in connection with the accompanying drawings. However, it should be understood that the drawings are designed for purposes of illustration only and not as a definition of the limits of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

[Para 26] FIG. 1A is a schematic view of an apparatus according to one embodiment directly producing non-local effect of a substance on a biological system through quantum entanglement.

[Para 27] FIG. 1B is a schematic view of a method according to another embodiment directly producing non-local effect of a substance on a biological system through quantum entanglement induced by photons emitted by the said biological system.

[Para 28] FIG. 2A is a schematic view of the apparatus illustrated in FIG.1A producing quantum entanglement between a substance and a medium such as water, and the medium subsequently producing non-local effect of the said substance on a biological system after it is consumed by the biological system.

[Para 29] FIG. 2B is a schematic view of another configuration of the apparatus illustrated in FIG. 2A producing quantum entanglement between a substance and a medium such as water, and the medium subsequently producing non-local effect of the said substance on a biological system after it is consumed by the biological system.

[Para 30] FIG. 3A is a schematic view of an apparatus according to another embodiment producing quantum entanglement between a substance and a medium such as water, and the medium subsequently producing non-local effect of the said substance on a biological system after it is consumed by the biological system.

[Para 31] FIG. 3B is a schematic view of another configuration of the apparatus illustrated in FIG. 3A producing quantum entanglement between a substance and a medium such as water, and the medium subsequently producing non-local effect of said substance on a biological system after it is consumed by the biological system.

[Para 32] FIG. 4A is a schematic view of three embodiments of an apparatus in the present invention for producing quantum entanglement between a first and second medium such as two parts of water.

[Para 33] FIG. 4B is a schematic view of another three embodiments of an apparatus in the present invention for producing quantum entanglement within a medium such as water.

[Para 34] FIG. 5A is a schematic view of a method according to one embodiment for using two parts of a quantum entangled medium such as water for transmitting a beneficial effect of a substance or an encoded message from one location to another.

[Para 35] FIG. 5B is a schematic view of a method according to another embodiment for using two parts of a quantum entangled medium for transmitting a beneficial effect of a substance or an encoded message from one location to another.

[Para 36] FIG. 5C is a schematic view of a method according to yet another embodiment for using two parts of a quantum entangled medium for quantum entangling two biological systems such as two human bodies for beneficial purposes.

[Para 37] FIG. 6 is a schematic view of a method according to one embodiment for producing quantum entanglement between two biological systems such as two human bodies for beneficial purposes.

DETAILED DESCRIPTION OF THE INVENTION

[Para 38] The apparatus of the present invention in one broad embodiment includes a quantum entanglement generating source, a substance disposed adjacent to the said source and a container holding the said substance.

[Para 39] The said source will be, depending on a particular use, any source, such as a magnetic coil connected to a driving device, laser, microwave oven, flashlight or even a biological system, which is capable of generating quantum-entangling members such as photons, electrons, atoms or molecules when said source operates. The selection and operating specifications of the source will vary according to the use. The person skilled in the art will be able readily to determine the appropriate source and operating specifications

of said source, with only routine experimentation, for optimum performance of the specific use intended.

[Para 40] The said substance will be, depending on the use, a single substance or a mixture of several substances and has the physical forms of a liquid, gel, powder, solid or gas, or a mixture of these said forms. Again, the selection of the substance or specific mixture of substances and their precise concentrations will vary according to the use. It will, however, from the information herein, be well within the ability of a person of ordinary skill in the art to select the appropriate mixture of substances for the particular use intended by such person, with no more than routine experimentation.

[Para 41] The container will be any material and form capable of supportive functions such as a simple plastic frame, a glass or plastic bottle, or polymer matrix. The container will be optional if the substance or the mixture of substances will be made into an appropriate solid. Further, the container will be at least partially transparent to quantum-entangling members such as photons generated by the source.

[Para 42] Considering first FIG. 1A, the apparatus 100 of the present invention in one embodiment includes a magnetic coil 111 connected to an audio system 112 as the generating source 110, a substance 120 disposed adjacent to the said source 110 and a container 130 holding the said substance 120.

[Para 43] In one particular embodiment, the container 130 is a small glassware of the dimensions about 1"x3"x4" with a useful internal volume of about 20ml, and the source 110 is made up of a magnetic coil 111 and an audio system 112 connected to the said magnetic coil. The said small glassware has a cap which is removable so that the container can be filled or emptied. The said magnetic coil is made up of a 75-feet and 26-gauge magnetic wire coated with enamel for insulation and wound on an open-ended plastic tube of the dimensions 3" in length and 1.5" in diameter. The said audio system is a typical consumer

electronic product or a combination of several consumer electronic products readily available from a consumer electronics store.

[Para 44] When music is played on the audio system and the magnetic coil is connected to the speaker output of the audio system, the magnetic coil produces magnetic pulses with frequencies in the range of 0Hz to 10kHz and output in the range of 0 Watt to more than 50 Watts depending on the audio output setting and the type of audio system is used. These values for frequency and output power of the magnetic pulses emitted from the magnetic coils can be adjusted for optimal performance of the particular use intended.

[Para 45] To use the apparatus having this particular embodiment, one disposes the said apparatus 100 adjacent to a responsive target 500 such as a person's brain, and plays music on the audio system 112 with a desired output power and for a desired length of time whereby the photons generated by the magnetic coil 111 first quantum-entangle with quantum entities inside the substance 120, then travel to the biological system 500 and subsequently entangle with the quantum entities inside the biological system 500 producing non-local effect of the substance 120 on the biological system 500 through quantum entanglement.

[Para 46] FIG. 1B illustrates one method of directly producing non-local effect of a substance on a biological system through photons emitted by the biological system itself. The essential steps include providing a substance 120 responsive to photons emitted by a biological system 500; disposing said substance 120 adjacent to said biological system 500 whereby said photons quantum-entangle with said substance which produces said non-local effect of said substance on said biological system.

[Para 47] Considering next FIG. 2A, the apparatus 100 of the present invention includes a quantum entanglement generating source 110, a substance 120 disposed adjacent to the said source 110, a first container 130 holding the said substance 120, a medium 140

disposed adjacent to the substance 120, and a second container 150 holding the medium 140.

[Para 48] Again, the said first or second container will be, depending on a particular use, any material and form capable of supportive functions such as a simple frame, glassware, plastic ware or polymer matrix. The first or second container will be optional if the substance, the mixture of substances, medium or mixture of media will be made into an appropriate solid. Further, the first and second container will be at least partially transparent to quantum-entangling members such as photons generated by the source.

[Para 49] In one embodiment, the medium to be quantum-entangled the substance is an aqueous liquid, preferably water. It will be understood, however, that the invention is not limited only to quantum-entanglement of water with the substance but also applies to the quantum-entanglement of other medium with the substance.

[Para 50] In one particular embodiment, the second container is a large glassware of the dimensions 2"x 8"x10" with a useful internal volume of 200ml, the medium is 200m/ tap water, and other elements of the apparatus are the same as the ones described in the particular embodiment of the apparatus shown in FIG. 1A. The said large glassware has a cap which is removable so that the second container can be filled or emptied.

[Para 51] To use the apparatus having this particular embodiment, one plays music on the audio system 112 with a desired output power and for a desired length of time whereby the photons generated by the magnetic coil 111 first entangle with quantum entities inside the substance 120, then travel to the medium 140 and subsequently entangle with quantum entities inside the medium 140 producing quantum entanglement between the substance 120 and the medium 140. Subsequently, to use the quantum entangled medium 140, one applies said medium, in one embodiment, to a biological system 500 such as a human body to produce non-local effect of the substance 120 on the said biological system 500.

[Para 52] Considering next FIG. 2B, the apparatus 100 of the present invention is a different configuration of the apparatus shown FIG. 2A in which the medium 140 is disposed between the substance 120 and the said source 110.

[Para 53] In one particular embodiment, all elements of the apparatus are the same as the ones in the particular embodiment of the apparatus shown in FIG. 2A. To use the apparatus having this particular embodiment, one again plays music on the audio system 112 with a desired output power and for a desired length of time such that the photons produced by the magnetic coil 111 first entangle with quantum entities inside the medium 140, then travel to the substance 120 and subsequently entangle with quantum entities inside the substance 120 producing quantum entanglement between the medium 140 and the substance 120. Subsequently, to use the quantum entangled medium 140, one applies said medium, in one embodiment, to a biological system 500 such as the human body to produce non-local effect of the substance 120 on the said biological system 500.

[Para 54] Considering next FIG. 3A, the apparatus 100 of the present invention includes a quantum entanglement generating source 110, a substance 120 disposed adjacent to the said source at a first adjustable distance, a first container 130 holding the said substance 120, a medium 140 disposed adjacent to the substance 120 at a second adjustable distance, and a second container 150 holding the medium 140.

[Para 55] In one particular embodiment, the quantum entanglement generating source 110 is a laser with a 50 *mW* output and wavelengths in the ranges of 635 *nm* – 675 *nm*, and other elements of the apparatus are the same as the ones described in the particular embodiment of the apparatus illustrated in FIG. 2A. These values for frequency and wavelength of the laser light emitted from the laser can be adjusted for optimal performance of the particular use intended.

[Para 56] To use the apparatus having this particular embodiment, one operates the laser 110 with a desired output power and for a desired length of time whereby the photons generated by the laser 110 first entangle with quantum entities inside the substance 120, then travel to the medium 140 and subsequently entangle with quantum entities inside the medium 140 producing quantum entanglement between the substance 120 and the medium 140. Subsequently, to use the quantum entangled medium 140, one applies said medium, in one embodiment, to a biological system 500 such as the human body to produce non-local effect of the substance 120 on the said biological system 500.

[Para 57] Considering next FIG. 3B, the apparatus 100 of the present invention is a different configuration of the apparatus shown FIG. 3A in which the medium 140 is disposed between the substance 120 and the said source 110.

[Para 58] In one particular embodiment, all elements of the apparatus are the same as the ones in the particular embodiment of the apparatus shown in FIG. 3A. To use the apparatus having this particular embodiment, one again operates the laser 110 with a desired output power and for a desired length of time whereby the photons generated by the laser 110 first entangle with quantum entities inside the medium 140, then travel to the substance 120 and subsequently entangle with quantum entities inside the substance 120 producing quantum entanglement between the medium 140 and the substance 120. Subsequently, to use the quantum entangled medium 140, one applies said medium, in one embodiment, to a biological system 500 such as the human body to produce non-local effect of the substance 120 on the said biological system 500.

[Para 59] Considering next FIG. 4A, the apparatus 100 of the present invention includes a quantum entanglement generating source 110, a first medium 140, a first container 150 holding the said first medium 140, a second medium 160 disposed adjacent to the first medium 140, and a second medium container 170 holding the second medium 160.

[Para 60] The said first or second container will be, depending on a particular use, any material and form capable of supportive functions such as a simple frame, glassware, plastic ware or polymer matrix. The first or second container will be optional if the first or second medium will be made into an appropriate solid. Further, the first and second container will be at least partially transparent to quantum-entangling members such as photons generated by the source.

[Para 61] In one embodiment, the first and second medium to be quantum-entangled with each other are both an aqueous liquid, preferably water. It will be understood, however, that the invention is not limited only to quantum-entanglement of water with water but also applies to the quantum-entanglement of other media with each other.

[Para 62] In one embodiment 101, the said source 110 is a microwave oven enclosing the said medium 140 and 160 disposed adjacent to each other. In another embodiment 102, the said source 110 is made up of a magnetic coil 111 and an audio system 112 connected to the said magnetic coil with the said magnetic coil disposed adjacent to medium 140. In yet another embodiment 103, the said source 110 is a laser disposed adjacent to medium 140.

[Para 63] To use each apparatus 101, 102 or 103 having the respective embodiment, one operates the particular quantum entanglement source 110 with a desired output power and for a desired length of time whereby the photons generated by the said source 110 first entangle with quantum entities inside the medium 140, then travel to the medium 160 and subsequently entangle with quantum entities inside the medium 160 producing quantum entanglement between medium 140 and 160.

[Para 64] Considering next FIG. 4B, the apparatus 100 of the present invention includes a quantum entanglement generating source 110, a medium 180, and a container 190 holding

the said medium 180. The said apparatus is essentially a different configuration of the apparatus illustrated in FIG. 4A.

[Para 65] Again, in one particular embodiment 104, the said source 110 is a microwave oven enclosing the medium 180. In another particular embodiment 105, the said source 110 is made up of a magnetic coil 111 and an audio system 112 connected to the said magnetic coil with the said magnetic coil disposed adjacent to the medium 180. In yet another embodiment 106, the said source 110 is a laser disposed adjacent to the medium 180.

[Para 66] To use each apparatus 104, 105 or 106 having the respective embodiment, one operates the quantum entanglement source 110 with a desired output power and for a desired length of time whereby the photons generated by the said source 110 first entangle with some quantum entities inside the medium 180, and second entangle with some other quantum entities inside the same medium 180 producing quantum entanglement within the medium 180. Subsequently, to use the quantum-entangled medium 180, the said medium is divided into two or more parts.

[Para 67] FIG. 5A illustrates one method of beneficially using two parts 181 and 182 of a quantum-entangled medium 180 produced with apparatus 101, 102 or 103 illustrated in FIG. 4B (or 140 and 160 produced with apparatus 101, 102 or 103 illustrated in FIG. 4A). The essential steps include providing two parts 181 and 182 of a quantum-entangled medium 180, applying one part 181 to a biological system 500 such as the human body, and quantum entangling the other part 182 with a desired substance 120 such as a particular medication or substance encoded with a message whereby non-local effect of the substance 130 on the said biological system 500 is produced for a beneficial purpose.

[Para 68] FIG. 5B illustrates another method of beneficially using two parts 181 and 182 of a quantum-entangled medium 180 produced with apparatus 101, 102 or 103

illustrated in FIG. 4B (or 140 and 160 produced with apparatus 101, 102 or 103 illustrated in FIG. 4A). The essential steps are the same as those described immediately above.

[Para 69] FIG. 5C illustrates yet another method of beneficially using two parts 181 and 182 of a quantum-entangled medium 180 produced with apparatus 101, 102 or 103 illustrated in FIG. 4B (or 140 and 160 produced with apparatus 101, 102 or 103 illustrated in FIG. 4A). The essential steps include providing two parts 181 and 182 of a quantum-entangled medium 180, applying one part 181 to a biological system 500 such as a human body and other part 182 to another biological system 600 such as another human body whereby the two biological systems 500 and 600 are quantum entangled for a beneficial purpose.

[Para 70] FIG. 6 illustrates a method of directly quantum entangling two biological systems 500 and 600 such as two human brains for a beneficial purpose. The essential steps include providing a quantum entanglement source 110 such as a large magnetic coil 111 connected to a audio system 112 with high output power, disposing the biological systems 500 adjacent to the said source and the biological system 600 adjacent to the biological systems 500, playing music on the audio system 112 with a desired output power and for a desired length of time such that the photons generated by the magnetic coil 111 first entangle with quantum entities inside the biological system 500, then travel to biological system 600 and subsequently entangle with the quantum entities inside the biological system 600 producing quantum entanglement between the biological system 500 and 600.

[Para 71] It will be appreciated that the particular features of the methods and apparatuses illustrated and described herein may be employed separately or in combination in any suitable manner so as to enhance the beneficial purposes. Those skilled in the art will

also of course recognize that substitutions can be made, as long as the changes do not materially affect the ability of the methods and apparatuses disclosed herein.

[Para 72] Various experimental studies with the apparatus and methods disclosed herein were carried out to evaluate the quantum entanglement produced and the effects of various substances on responsive targets such as biological and/or chemical systems, and to verify that the said effects were non-local effects of the said substances produced through quantum entanglement.

[Para 73] In the first set of experiments, the apparatus illustrated in FIG.1A having the particular embodiment described previously was used. Said apparatus included the magnetic coil with an estimated 20W output disposed at one inch above the right side of a test subject's forehead, the small glassware inserted between the said coil and the forehead, a substance filling the said container, and the audio system with adjustable output power and frequency spectrum controls. When music was played on the audio system, the said magnetic coil produces magnetic pulses with frequencies in the range of 0Hz to 10kHz. Experiments were conducted with said container being filled with different general anesthetics, medications, or nothing/water as control, and the test subject being exposed to the magnetic pulses for 10 *min* and not being told the content in the said container or details of the experiments.

[Para 74] The indicators used to measure the biological and/or chemical effects of said treatment were the first-person experiences of any unusual sensations such as numbness, drowsiness and/or euphoria which the subject felt after the treatment and the relative degrees of these unusual sensations on a scale of 10 with 0=nothing, 1=weak, 2=light moderate, 3=moderate, 4=light strong, 5=strong, 6=heavily strong, 7=very strong, 8=intensely strong, 9=extremely strong and 10=intolerable. The duration of the unusual

sensations and other symptoms after the treatment such as nausea, fatigue or headache were also recorded.

[Para 75] In the second set of experiments, the apparatus illustrated in FIG.2A have the particular embodiment described previously was first used. The said apparatus included the magnetic coil, the large glassware with 200 *m*/ fresh tap water, the small glassware inserted between the magnetic coil and large glassware, and a substance filling the said small glassware. Next, the apparatus illustrated in FIG.3A have the particular embodiment described previously was used. The said apparatus included, among other elements described previously, the laser with a 50 *mW* output and wavelengths in the ranges of 635 *nm* – 675 *nm*.

[Para 76] All Experiments in the second set were conducted in the dark with the small glassware being filled with different general anesthetics, medications, or nothing/water as control, the large glassware being filled with 200 *m*/ tap water and exposed to the magnetic pulses or laser light for 30 *min* and the test subject consuming the treated tap water but not being told anything about the experiments. The indicators used for measuring the biological and/or chemical effects were the same as those used in the first set of experiments.

[Para 77] In addition, the second set of experiments was also carried out respectively with a 1200 *W* microwave oven and a flashlight powered by two size-D batteries. When the microwave oven was used, a glass tube containing 20 *m*/ fresh tap water was submerged into a larger glass tube containing 50 *m*/ general anesthetic and exposed to microwave radiation for 5 *sec*. The said procedure was repeated four times to collect a total of 200 *m*/ treated tap water for consumption. When the flashlight was used, the magnetic coil shown in FIG 2A was replaced with the flashlight.

[Para 78] To verify that the biological and/or chemical effects experienced by the test subjects were due to quantum entanglement between the quantum entities inside the test subjects and those in the substances under study, the following several sets of additional experiments were carried out.

[Para 79] In the first set of entanglement verification experiments, the apparatus as illustrated in FIG.3B, having the particular embodiment described previously was used. When said apparatus operated, the laser light from the laser first passed through the large glassware filled with 200*m*/ tap water and then through the small glassware filled with a substance or nothing/water as control located about 300*cm* away. To prevent reflected laser light from re-entering the large glassware holding the medium, the small glassware filled with a substance or nothing/water as control was positioned with an angle to the incoming laser light. After 30*min* exposure to the laser light, a test subject consumed the treated tap water without being told the details of the experiments and report the biological and/or chemical effects felt for the next several hours.

[Para 80] In the second set of entanglement verification experiments, 400*m*/ tap water in the glassware illustrated in FIG.4B was first exposed to the radiation of the magnetic coil with a 20 Watt output for 30*min* or that of microwave oven with 1500 Watt output for 2*min*. Then a test subject immediately consumed one-half of the water so exposed as shown in FIG.5A or FIG.5B. After 30*min* from the time of consumption the other half was exposed to magnetic pulses as shown in FIG.5A or the laser light for 30 minutes as shown in FIG.5B. The test subject reported, without being told any details of the experiments, the biological and/or chemical effects felt for the whole period from the time of consumption to several hours after the exposure had stopped.

[Para 81] In the third set of entanglement verification experiments, one-half of 400*m*/ bottled Poland Spring water with a shelf time of at least three months was immediately

consumed by a test subject. After 30 *min* from the time of consumption the other half was exposed to the magnetic pulses or laser light for 30 *min* using the apparatus shown in FIG.5A and FIG.5B respectively, and the test subject reported, without being told any details of the experiments, the biological and/or chemical effects felt for the whole period from the time of consumption to several hours after the exposure had stopped.

[Para 82] In the fourth set of entanglement verification experiments, a test subject took one-half of the 400 *m*/ microwave or magnetic coil exposed water as shown in FIG.4B to his/her workplace located more than 50 miles away (in one case to Beijing located more than 6,500 miles away) and consumed the same at the workplace at a specified time. After 30 *min* from the time of consumption, the other half was exposed to the magnetic pulses or the laser light for 30 *min* at the original location using the apparatus shown in FIG.5A or FIG.5B. The test subject reported any biological and/or chemical effects felt without knowing the details of the experiments for the whole period from the time of consumption to several hours after the exposure had stopped.

[Para 83] Table 1 summarizes the results obtained from the first two sets of experiments described above:

	1st Set: Magn. Coil		2nd Set: Magn. Coil		Laser Light		Flashlight		Microwave	
	Test #	Effect	Test #	Effect	Test #	Effect	Test #	Effect	Test #	Effect
Anaesthetics										
Subject A	13	Yes	16	Yes	22	Yes	8	Yes	3	Yes
Subject B	2	Yes	2	Yes	3	Yes	0	N/A	1	Yes
Subject C	2	Yes	6	Yes	6	Yes	0	N/A	1	Yes
Subject D	2	Yes	1	Yes	5	Yes	0	N/A	0	N/A
Medications										
Subject A	17	Yes	14	Yes	16	Yes	1	Yes	3	Yes
Subject B	1	Yes	1	Yes	3	Yes	0	N/A	2	Yes
Subject C	3	Yes	1	Yes	4	Yes	0	N/A	1	Yes
Subject D	0	N/A	0	N/A	3	Yes	0	N/A	1	Yes
Control										
Subject A	12	No	5	No	11	No				
Subject B	3	No	0	N/A	1	No				

Subject C	1	No	2	No	4	No
Subject D	0	N/A	0	N/A	1	No

[Para 84] Table 2 breakdowns the summary in Table 1 into each general anesthetic plus morphine in the case of medications:

Table 2	1st Set: Magn. Coil		2nd Set: Mag. Coil		Red Laser		Flashlight		Microwave	
	Test #	Effect	Test #	Effect	Test #	Effect	Test #	Effect	Test #	Effect
Chloroform										
Subject A	2	Yes	2	Yes	5	Yes	2	Yes	3	Yes
Subject B	0	N/A	0	N/A	1	Yes	0	N/A	1	Yes
Subject C	1	Yes	2	Yes	3	Yes	0	N/A	1	Yes
Subject D	1	Yes	0	N/A	2	Yes	0	N/A	0	N/A
Chloroform D										
Subject A	3	Yes	2	Yes	2	Yes	1	Yes		
Subject B	1	Yes	0	N/A	1	Yes	0	N/A		
Subject C	0	N/A	0	N/A	1	Yes	0	N/A		
Subject D	0	N/A	0	N/A e	0	N/A	0	N/A		
Isoflurane										
Subject A	3	Yes	6	Yes	5	Yes	4	Yes		
Subject B	0	N/A	1	Yes	0	N/A	0	N/A		
Subject C	0	N/A	1	Yes	1	Yes	0	N/A		
Subject D	1	Yes	1	Yes	1	Yes	0	N/A		
Diethyl Ether										
Subject A	5	N/A	6	Yes	10	Yes	1	Yes		
Subject B	1	N/A	1	Yes	1	Yes	0	N/A		
Subject C	1	N/A	3	Yes	1	Yes	0	N/A		
Subject D	0	N/A	0	N/A	2	Yes	0	N/A		
Morphine										
Subject A	5	Yes	7	Yes	5	Yes				
Subject B	0	N/A	1	Yes	2	Yes				
Subject C	0	N/A	1	Yes	2	Yes				
Subject D	0	N/A	0	N/A	2	Yes				
Other Med										
Subject A	7	Yes	4	Yes						
Subject B	1	Yes	0	N/A						
Subject C	3	Yes	0	N/A						
Subject D	0	N/A	0	N/A						

[Para 85] With respect to the test subjects, all four voluntarily consented to the proposed experiments. To ensure safety, all initial experiments were conducted on the inventor,

Subject A, by himself. Further, all general anaesthetics used in the study were properly obtained for research purposes and all medications were either leftover items originally prescribed to Subject C's late mother or items available over the counter. To achieve proper control, repeating experiments on Subject A were carried out by either Subject B or C in blind settings, that is, he was not told whether or what general anaesthetic or medication were applied before the end of the experiments. Further, all experiments on Subject B, C and D were also carried out in blind settings, that is, these test subjects were not told about the details of the experiments on them or whether or what general anaesthetic or medication were applied.

[Para 86] As shown in Table 1, in the control studies for the first set of experiments all test subjects did not feel anything unusual from the exposure to magnetic pulses except vague or weak local sensation near the site of exposure. In contrast, all general anaesthetics studied produced clear and completely reproducible biological and/or chemical effects such as various brain effects in various degrees and durations as shown in Table 2 as if the test subjects had actually inhaled the same. These brain effects were first localized near the site of treatment and then would spread over the whole brain and fade away within several hours. But residual brain effects (hangover) would linger on for more than 12 hours in most cases. Among the general anaesthetics studied, chloroform and deuterated chloroform (chloroform D) produced the most pronounced and potent brain effects in both strength and duration followed by isoflurance and diethyl ether. Tribromoethanol dissolved in water (1:50 by weight) and ethanol also produced noticeable effects but they are not summarized in the table. Other biological and/or chemical effects included nausea, fatigue and numbness in various degrees.

[Para 87] As also shown in Table 1, while the test subjects did not feel anything unusual from consuming the tap water treated in the control experiments with magnetic pulses or

laser light, all general anaesthetics studied produced clear and completely reproducible biological and/or chemical effects such as brain effects in various degrees and durations respectively as shown in **Table 2** similar to the observations in the first set of experiments. These brain effects were over the whole brain, would first intensify within the first half hour after the test subjects consumed the treated water and then would fade away within the next a few hours. But residual brain effects would linger on for more than 12 hours as in the first set of experiments. Among the general anaesthetics studied, again chloroform and deuterated chloroform produced the most pronounced and potent effect in strength and duration followed by isoflurane and diethyl ether as illustrated in Figure 5. In addition, available results with flashlight and microwave as photon sources are also summarized in **Table 1** respectively. In both cases general anaesthetics tested produced clearly and reproducible brain effects with but the brain effects produced by microwave were much stronger than those by flashlight. Tribromoethanol dissolved in water (1:50 by weight) and ethanol also produced noticeable effects but they are not summarized in the table. Other biological and/or chemical effects included nausea, fatigue and numbness in various degrees.

[Para 88] **Table 1** also summarizes results obtained with several medications including morphine, fentanyl, oxycodone, nicotine and caffeine in both first and second sets of experiments. It was found that they all produced clear and completely reproducible biological and/or chemical effects such as brain effects including euphoria and/or hastened alertness in various degrees and durations respectively. For example, in the case of morphine in the first set of experiments the brain effect was first localized near the site of treatment and then would spread over the whole brain and fade away within several hours. In the case of morphine in the second set of experiments the brain effect was over the

whole brain, would first intensify within the first half hour after the test subjects consumed the treated water and then would fade away within the next a few hours.

[Para 89] Comparative experiments were also conducted on Subject A and C with chloroform and diethyl ether by asking them to inhale the vapours of chloroform and diethyl respectively for 5 *sec* and compare the biological and/or chemical effects such as brain effect felt with those in the two sets of experiments described above. The brain effects induced in these comparative experiments are qualitatively same as those produced in various experiments described above when chloroform and diethyl ether were used respectively.

[Para 90] Table 3 summarizes the results obtained with the entanglement verification experiments carried out so far with chloroform, deuterated chloroform, diethyl ether and morphine:

Table 3	First Set		Second Set		Third Set		Fourth Set	
	Test #	Effect	Test #	Effect	Test #	Effect	Test #	Effect
Subject A	8	Yes	8	Yes	3	Yes	3	Yes
Subject B	2	Yes	3	Yes	2	Yes	1	Yes
Subject C	3	Yes	2	Yes	1	Yes	1	Yes
Control								
Subject A	2	No	8	No	3	No	3	No
Subject B	0	N/A	3	No	2	No	1	No
Subject C	1	No	2	No	1	No	1	No

[Para 91] With all four sets of entanglement verification experiments, clear and consistently reproducible biological and/or chemical effects such as brain effects were experienced by the test subjects above and beyond what were noticeable in the control portions of the experiments under blind settings. With respect to the second, third and fourth sets of entanglement verification experiments, the only possible explanation for the brain effects and other biological and/or chemical effects experienced by the test subjects are that these effects were the consequences of quantum entanglement because the water

consumed by the test subjects was never directly exposed to the magnetic pulses or the laser lights in the presence of the substances under studies.

[Para 92] More specifically, in the first set of entanglement verification experiments, the biological and/or chemical effects such as brain effects experienced by the test subjects were the same as those in which the apparatus shown in FIG.3A was used. In the second, third and fourth sets of these experiments, all test subjects did not feel anything unusual in the first half hour after consuming the first half of the water either radiated with microwave, magnetic pulses or just sit on the shelf for more than 3 months. But within minutes after the second half of the same water was exposed to the laser light or magnetic pulses in the presence of general anesthetics or morphine, the test subjects experienced clear and completely reproducible biological and/or chemical effects such as brain effects of various intensities as if they have actually inhaled the general anaesthetic used in the exposure of the second half of the water. The said brain effects would first intensify within minutes after the exposure began and persist for the duration of the said exposure and for the next several hours after the exposure had stopped. Other biological and/or chemical effects included nausea, fatigue and numbness in various degrees. Further, all other conditions being the same, the magnetic coil used produced more intense biological and/or chemical effects such as brain effects than the laser used. Furthermore, all other conditions being the same, when the water was first radiated with microwave or magnetic pulses before consumption it produced much more intense biological and/or chemical effects such as brain effects than the water just sitting on the shelf for more than 3 months before consumption.

[Para 93] There are other indications that quantum entanglement was the cause of the biological and/or chemical effects such as brain effects experienced by the test subjects. First, the biological and/or chemical effects inducing mean could not be transmitted

through an electrical wire as reported above. Second, the said inducing mean do not depend on the wavelengths of the photons applied, thus mere interactions among the photons, a chemical substance and water will induce the biological and/or chemical effects such as brain effects after a test subject consumes the water so interacted.

[Para 94] Therefore, the applicant concludes that the biological and/or chemical effects such as brain effects experienced by the test subjects were the consequences of quantum entanglement between quantum entities inside the biological and/or chemical systems such as the brains and those of the applied chemical substances induced by the entangling photons of the magnetic pulses or applied lights.

[Para 95] In light of the forgoing, the results obtained in the first set of experiments can be interpreted as the consequence of quantum entanglement induced by the photons of the magnetic pulses. Similarly, the results obtained from the second sets of experiments can be explained as quantum entanglement between the quantum entities in the water and those in the chemical substance induced by the photons of the laser light or magnetic pulses and the subsequent physical transport of the water to a biological and/or chemical system such as the brain after consumption by the test subject which, in turn, produces the observed biological and/or chemical effects such as brain effects through the entanglement of the quantum entities inside the biological and/or chemical system such as the brain with those in the consumed water.

[Para 96] While the applicant does not wish to be bound by any particular quantum entities suggested herein, it is believed that nuclear spins and/or electron spins respectively inside the substance and biological and/or chemical system such as the brain are the quantum entities responsible for mediating the non-local effect of the substance on the biological and/or chemical system such as the brain since nuclear spins and electron spins

are the natural targets of interaction with the quantum-entangling members such as photons for reasons discussed below.

[Para 97] The applicant first chose general anaesthetics in his experiments because the said substances are among the most powerful brain-influencing substances. The applicant's expectation was that, if nuclear and/or electronic spins inside the brain are involved in brain functions such as perception as recently hypothesized by the applicant with his collaborator (Hu, H. P., & Wu, M. X. Spin-mediated consciousness theory. *Medical Hypotheses* 63, 633-646 (2004). Also see arXiv e-print quant-ph/0208068 (2002)), the brain would be able to sense the effect of an external anaesthetic sample through quantum entanglement between these spins inside the brain and those in the said anesthetic sample induced by the photons of the magnetic pulse or laser light by first interacting with the nuclear spins in the said anesthetic sample, thus carrying quantum information about the anesthetic molecules, and then interacting with the nuclear and/or electronic spins inside the brain. In turn, the brain will be able to sense the effect of the general anesthetic because of the resulting quantum entanglement.

[Para 98] Indeed, neural membranes and proteins contain vast numbers of nuclear spins such as ^1H , ^{13}C , ^{31}P and ^{15}N . These nuclear spins and unpaired electron spins are natural targets of interaction with the photons of the magnetic pulse or laser light. Indeed, these spins form complex intra- and inter-molecular networks through various intra-molecular J- and dipolar couplings and both short- and long-range intermolecular dipolar couplings. Further, nuclear spins have long relaxation times after excitations (Hu, H. & Wu, M. Action potential modulation of neural spin networks suggests possible role of spin in memory and consciousness *NeuroQuantology* 2:309-317 (2004)). Thus, when a nematic liquid crystal is irradiated with multi-frequency pulse magnetic fields, its ^1H spins can form long-lived intra-molecular quantum coherence with entanglement for information storage (Khitrin, A.

K., Ermakov, V. L. & Fung, B. M. Information storage using a cluster of dipolar-coupled spins. Chem. Phys. Lett. 360, 161–166 (2002)). Also, long-lived ($\sim .05$ ms) entanglement of two macroscopic electron spin ensembles in room temperature has also been achieved (Julsgaard, B., Kozhekin, A. & Polzik, E. S. Experimentally long-lived entanglement of two macroscopic objects. Nature 413, 400–403 (2001)). Conceptually, spin is a fundamental quantum process with intrinsic connection to the structure of space-time and was shown to be responsible for the quantum effects in both Hestenes and Bohmian quantum mechanics (Hu, H. & Wu, M. Spin as primordial self-referential process driving quantum mechanics, spacetime dynamics and consciousness. NeuroQuantology 2:41–49 (2004)). Thus, the applicant has recently suggested with his collaborator that these spins could be involved in brain functions at a more fundamental level (see Hu, H. P., & Wu, M. X. Spin-mediated consciousness theory. Medical Hypotheses 63, 633–646 (2004). Also see arXiv e-print quant-ph/0208068 (2002)).

[Para 99] The applicant would like to point out that although the indicators used to measure the biological and/or chemical effects such as brain effects in the experiments carried out by him were qualitative and subjective, they reflect the first-person experiences of the qualities, intensities and durations of these biological and/or chemical effects such as the brain effects by the test subjects since their brains were directly used as experimental probes. Further, these effects were completely reproducible under blind experimental settings so that possible placebo effects were excluded.

[Para 100] My invention and discovery make it clear that (1) biologically and/or chemically meaningful information can be transmitted from one system or location to the other through quantum entanglement; (2) quantum entanglement can be used to deliver the therapeutic effects of many drugs to biological systems such as human bodies without ever physically administering the said drugs to the said systems; (3) quantum entanglement

alone can be used for communications of both quantum and classical information; (4) many substances of nutritional and even recreational values can be repeatedly administrated to the human body through the said technologies; (5) it can be used for instantaneous communications with humans sent to the outer space; and (6) quantum entanglement can also be used to entangle two or more human minds for legitimate purposes.

[Para 101] Besides the various experiments described above, the following examples will further illustrate specific embodiments of the present invention, with the end use applications for which each is particularly preferred.

[Para 102] EXAMPLE 1

[Para 103] The small glassware was filled with 20ml CHCl_3 or the medication containing morphine. It was found by simply disposing the small glassware filled with one of the said substance next to the test subject's forehead for several hours as illustrated in FIG.1B, weak but noticeably brain effect was produced.

[Para 104] EXAMPLE 2

[Para 105] It was found that drinking water exposed to photons of a quantum entanglement generating source such as magnetic coil, laser or microwave in the presence of a general anesthetic such as CHCl_3 , diethyl ether, isoflurance or tribromoethanol, or a medication containing morphine, fentanyl or oxycodone in various manners disclosed herein suppressed pain in the test subjects.

[Para 106] EXAMPLE 3

[Para 107] It was further found that drinking one part of the quantum entangled water while exposing the other part of the same water photons of the magnetic coil or laser in the presence of a general anesthetic such as CHCl_3 or diethyl ether, or a medication containing morphine in the manners disclosed herein also suppressed pain in the test subjects regardless of the distance between the locations of consumption and exposure.

[Para 108] It will be evident from the above that there are other embodiments which are clearly within the scope and spirit of the present invention, although they were not expressly set forth above. Therefore, the above disclosure is exemplary only, and the actual scope of my invention is to be determined by the claims.

What is claimed is:

[Claim 1] A method of producing a quantum entanglement between a first target and a second target, a first non-local effect of said second target on said first target through said quantum entanglement and/or a second non-local effect of said first target on said second target through said quantum entanglement which comprises the steps of:

selecting said first target which comprises a first substance, mixture of substances, physical system, chemical system or biological system;

selecting said second target which comprises a second substance, mixture of substances, physical system, chemical system or biological system; and

manipulating said first target and said second target;

whereby said quantum entanglement, said first non-local effect which comprises a first non-local physical, chemical or biological effect and/or said second non-local effect which comprises a second non-local physical, chemical or biological effect are generated.

[Claim 2] A method as in claim 1 wherein said manipulation comprises the steps of:

providing a quantum-entanglement generating source which emits a plurality of quantum-entangling members when said source operates;

disposing said first target between said source and said second target or said second target between said source and said first target; and

driving said source to emit said members which interact with said first target and said second target.

[Claim 3] A method as in claim 2 wherein said first target comprises an anesthetic, therapeutic, recreational, performance-enhancing, disease-preventing or health-enhancing substance; said second target comprises a human or animal; said source comprises a

photon or magnetic pulse generator; and said second non-local effect comprises said second non-local biological effect.

[Claim 4] A method as in claim 3 wherein said first target comprises chloroform, isoflurance, dymethyl ether, ethanol, tribromoethanol, morphine sulfate, fentanyl, nicotine or caffeine in a container disposed next to a selected head area of said human or animal; said source comprises a magnetic coil connected to a driving mechanism and disposed next to said container; and said second non-local biological effect comprises a non-local brain effect.

[Claim 5] A method as in claim 2 for producing a second quantum entanglement between said first target and a third target and/or a third non-local effect of said first target on said third target through said second quantum entanglement which further comprises the steps of:

selecting said third target which comprises a third substance, mixture of substances, physical system, chemical system or biological system; and
contacting said second target with said third target after said manipulation;
whereby said second quantum entanglement and/or said third non-local effect which comprises a third non-local physical, chemical or biological effect are generated.

[Claim 6] A method as in claim 5 wherein said first target comprises an anesthetic, therapeutic, recreational, performance-enhancing, disease-preventing or health-enhancing substance in a first container; said source comprises a photon or magnetic pulse generator; said second target comprises a water-based medium in a second container; said third target comprises a human or animal; said contact comprises delivering orally or intravenously said water-based medium to said human or animal; and said third non-local effect comprises said third non-local biological effect.

[Claim 7] A method as in claim 6 wherein said first target comprises chloroform, isoflurane, dimethyl ether, ethanol, tribromoethanol, morphine sulfate, fentanyl, nicotine or caffeine in said first container disposed next to said second container; said source comprises a laser or magnetic coil connected to a driving mechanism and disposed next to said first or second container or a microwave oven enclosing said first container and said second container; and said third non-local biological effect comprises a non-local brain effect.

[Claim 8] A method as in claim 2 wherein said first target comprises an anesthetic, therapeutic, recreational, performance-enhancing, disease-preventing or health-enhancing substance in a first container; and second target comprises a water-based medium in a second container.

[Claim 9] A method as in claim 2 wherein said first target comprises a first water-based medium in a first container; and second target comprises a second water-based medium in a second container.

[Claim 10] A method as in claim 2 wherein said first target comprises a first human or animal; second target comprises a second human or animal; and said source comprises a magnetic pulse generator.

[Claim 11] A method as in claim 1 wherein said manipulation comprises the step of: disposing said first target next to said second target for a selected length of time; whereby said quantum entanglement, said first non-local effect and/or said second non-local effect are generated by quantum-entangling members which are emitted by said first target, said second target and/or environment surrounding said first target and said second target and interact with said first target and said second target.

[Claim 12] A method as in claim 11 wherein said first target comprises an anesthetic, therapeutic, recreational, performance-enhancing, disease-preventing or health-enhancing

substance in a first container; said second target comprises a human or animal; and said second non-local effect comprises said second non-local biological effect.

[Claim 13] A method as in claim 12 wherein said first target comprises chloroform, isoflurane, dymethyl ether, ethanol, tribromoethanol, morphine sulfate, fentanyl, nicotine or caffeine in said first container disposed next to a selected head area of said human or animal; and said second non-local biological effect comprises a non-local brain effect.

[Claim 14] A method as in claim 1 wherein said manipulation comprises the steps of:
providing a first medium and a second medium, said first medium being quantum entangled with said second medium; and
contacting said first target with said first medium and contacting said second target with said second medium;
whereby said quantum entanglement between said first target and said second target, said first non-local effect and/or said second non-local effect are generated through a non-local process mediated by said quantum entanglement between said first medium and said second medium.

[Claim 15] A method as in claim 14 wherein said first medium comprises a first water-based medium in a first container, said second medium comprises a second water-based medium in a second container; said first target comprises an anesthetic, therapeutic, recreational, performance-enhancing, disease-preventing or health-enhancing substance; said second target comprises a human or animal; said contact of said first medium with said first target comprises dissolving said first target in said first medium; said contact of said second medium with said second target comprises delivering orally or intravenously said second medium to said human or animal; and said second non-local effect comprises said second non-local biological effect.

[Claim 16] A method as in claim 14 wherein said first medium comprises a first water-based medium in a first container, said second medium comprises a second water-based medium in a second container; said first target comprises a first human or animal; said second target comprises a second human or animal; said contact of said first medium with said first target comprises delivering orally or intravenously said first medium to said first human or animal; said contact of said second medium with said second target comprising delivering orally or intravenously said second medium to said second human or animal; said first non-local effect comprises said first non-local biological effect; and said second non-local effect comprises said second non-local biological effect.

[Claim 17] A method as in claim 1 wherein said manipulation comprises the steps of:
providing a first medium and a second medium, said first medium being quantum entangled with said second medium;
providing a quantum-entanglement generating source which emits a plurality of quantum-entangling members when said source operates;
disposing said second target between said source and said second medium or said second medium between said source and said second target;
contacting said first medium with said first target; and
driving said source to emit said members which interact with said second target and said second medium;
whereby said quantum entanglement between said first target and said second target, said first non-local effect and/or said second non-local effect are generated through a non-local process mediated by said quantum entanglement between said first medium and said second medium.

[Claim 18] A method as in claim 17 wherein said first medium comprises a first water-based medium in a first container, said second medium comprises a second water-based

medium in a second container; said first target comprises a human or animal; said second target comprises an anesthetic, therapeutic, recreational, performance-enhancing, disease-preventing or health-enhancing substance in a third container; said source comprises a photon or magnetic pulse generator; said contact of said first medium with said first target comprises delivering orally or intravenously said first medium to said human or animal; and said first non-local effect comprises said first non-local biological effect.

[Claim 19] A method as in claim 18 wherein said second target comprises chloroform, isoflurane, dymethyl ether, ethanol, tribromoethanol, morphine sulfate, fentanyl, nicotine or caffeine in said third container disposed next to said second container; and said source comprises a laser or magnetic coil connected to a driving mechanism disposed next to said second or third container or a microwave oven enclosing said second container and said third container.

[Claim 20] A method as in claim 1 wherein said first target is located at a first location and said second target is located at a second location; and said manipulation comprises:

- providing a first medium and a second medium, said first medium being quantum entangled with said second medium;
- transporting said first medium to said first location and said second medium to said second location;
- specifying a first contact time between said first medium and said first target and second contact time between said second medium and said second target;
- contacting said first medium with said first target at said first contact time and said second medium with said second target at said second contact time;
- whereby said quantum entanglement between said first target and said second target, said first non-local effect and/or said second non-local effect are generated through a

non-local process mediated by said quantum entanglement between said first medium and said second medium.

[Claim 21] A method as in claim 20 wherein said first medium comprises a first water-based medium in a first container, said second medium comprises a second water-based medium in a second container; said first target comprises an anesthetic, therapeutic, recreational, performance-enhancing, disease-preventing or health-enhancing substance; said second target comprises a human or animal; said contact of said first medium with said first target comprises dissolving said first target in said first medium; said contact of said second medium with said second target comprises delivering orally or intravenously said second medium to said human or animal; and said second non-local effect comprises said second non-local biological effect.

[Claim 22] A method as in claim 20 wherein said first medium comprises a first water-based medium in a first container, said second medium comprises a second water-based medium in a second container; said first target comprises a first human or animal; said second target comprises a second human or animal; said contact of said first medium with said first target comprises delivering orally or intravenously said first medium to said first human or animal; said contact of said second medium with said second target comprises delivering orally or intravenously said second medium to said second human or animal; said first non-local effect comprises said first non-local biological effect; and said second non-local effect comprises said second non-local biological effect.

[Claim 23] A method as in claim 20 for non-locally transmitting a first message from said first location to said second location and/or a second message from said second location to said first location wherein said specification steps further comprise the step of:
defining said first message to be transmitted from said first location to said second location by said second non-local effect and/or said second message to be transmitted

from said second location to said first location by said first non-local effect;

whereby said first message and/or said second message are non-locally transmitted.

[Claim 24] A method as in claim 23 wherein said first medium comprises a first water-based medium in a first container, said second medium comprises a second water-based medium in a second container; said first target comprises said chemical substance or mixture of chemical substances; said second target comprises a human or animal; said contact of said first medium with said first target comprises dissolving said first target in said first medium; said contact of said second medium with said second target comprises delivering orally or intravenously said second medium to said second human or animal; said second non-local effect comprises said second non-local biological effect.

[Claim 25] A method as in claim 1 wherein said first target is located at a remote location; and said manipulation comprises:

providing a first medium and a second medium, said first medium being quantum entangled with said second medium;

providing a quantum-entanglement generating source which emits a plurality of quantum-entangling members when said source operates;

transporting said first medium to said remote location;

disposing said second target between said source and said second medium or said second medium between said source and said second target;

specifying a contact time between said first medium and said first target and an operation time for driving said source;

contacting said first medium with said first target at said contact time; and

driving said source at said operation time to emit said members which interact with said second target and said second medium;

whereby said quantum entanglement between said first target and said second target,

said first non-local effect and/or said second non-local effect are generated through a non-local process mediated by said quantum entanglement between said first medium and said second medium.

[Claim 26] A method as in claim 25 wherein said first medium comprises a first water-based medium in a first container, said second medium comprises a second water-based medium in a second container; said first target comprises a human or animal; said second target comprises an anesthetic, therapeutic, recreational, performance-enhancing, disease-preventing or health-enhancing substance; said source comprises a photon or magnetic pulse generator; said contact of said first medium with said first target comprises delivering orally or intravenously said first medium to said human or animal; and said first non-local effect comprises said first non-local biological effect.

[Claim 27] A method as in claim 25 for non-locally transmitting a message to said remote location wherein the said specification steps further comprise the step of:
defining said message to be transmitted to said remote location by said first non-local effect;
whereby said message is non-locally transmitted.

[Claim 28] A method as in claim 27 wherein said first medium comprises a first water-based medium in a first container, said second medium comprises a second water-based medium in a second container; said first target comprises a human or animal; said second target comprises said chemical substance or mixture of chemical substances; said source comprises a photon or magnetic pulse generator; said contact of said first medium with said first target comprises delivering orally or intravenously said first medium to said first human or animal; and said first non-local effect comprises said first non-local biological effect.

[Claim 29] A method as in claim 1 for producing quantum entanglement within said first target wherein said steps of selecting and manipulating said second target are omitted.

[Claim 30] A method as in claim 29 wherein said manipulation comprises the step of:
letting said first target self-interact for a selected length of time;
whereby said quantum entanglement within said first target is generated through said self-interaction.

[Claim 31] A method as in claim 30 wherein said first target comprises a first water-based medium in a first container.

[Claim 32] A method as in claim 29 wherein said manipulation comprises the steps of:
providing a quantum-entanglement generating source which emits a plurality of quantum-entangling members when said source operates;
disposing said first target next to said source; and
driving said source to emit said quantum-entangling members;
whereby said quantum entanglement within said first target is generated by said quantum-entangling members which interact with said first target.

[Claim 33] A method as in claim 32 wherein said first target comprises a first water-based medium in a first container; and said source comprises a laser or magnetic coil connected to a driving mechanism disposed next to said first container or a microwave oven enclosing said first container.

[Claim 34] A method of producing a first non-local effect on a first target by manipulating a second target and/or a second non-local effect on said second target by manipulating said first target which comprises the steps of:
providing said first target and said second target; said first target being quantum entangled with said second target and comprising a first substance, mixture of substances, physical system, chemical system or biological system, and said second

target comprising a second substance, mixture of substances, physical system, chemical system or biological system; and
manipulating said first target and/or said second target;
whereby said first non-local effect which comprises a first non-local physical, chemical or biological effect and/or said second non-local effect which comprises a second non local physical, chemical or biological effect are generated through a non-local process mediated by said quantum entanglement between said first target and said second target.

[Claim 35] A method as in claim 34 wherein said manipulation comprises contacting or quantum-entangling said first target and/or second target with a third target which comprises a third substance, mixture of substances, physical system, chemical system or biological system.

[Claim 36] A method as in claim 35 wherein said first target comprises a first water-based medium; said second target comprises a second water-based medium; said third target comprises said third chemical substance or mixture of chemical substances; and said manipulation comprises dissolving said third target in said first and/or second target.

[Claim 37] A method as in claim 34 wherein said first target comprises said first chemical substance or mixture of chemical substances; said second target comprises said second chemical substance or mixture of chemical substances; and said manipulation comprises cooling, heating, or irradiating said first target and/or second target.

[Claim 38] A method as in claim 37 wherein said first target comprises a first water-based medium; and said second target comprises a second water-based medium.

[Claim 39] A method as in claim 34 wherein said manipulation comprises the steps of:
transporting said first target to a first location and said second target to a second location;

specifying a first treatment time for treating said first target and/or a second treatment time for treating said second target; and
treating said first target at said first treatment time and/or said second target at said second treatment time;
whereby said first non-local effect at said first location and/or said second non-local effect at said second location are generated.

[Claim 40] A method as in claim 39 wherein said treatment of said first target and/or second target comprises contacting or quantum-entangling said first target and/or second target with a third target which comprises a third substance, mixture of substances, physical system, chemical system or biological system.

[Claim 41] A method as in claim 40 wherein said first target comprises a first water-based medium; said second target comprises a second water-based medium; said third target comprises said third chemical substance or mixture of chemical substances; and said treatment of said first target and/or second target comprises dissolving said third target in said first and/or second target.

[Claim 42] A method as in claim 39 wherein said first target comprises said first chemical substance or mixture of chemical substances; said second target comprises said second chemical substance or mixture of chemical substances; and said treatment of said first target and/or second target comprises cooling, heating, or irradiating said first target and/or second target.

[Claim 43] A method as in claim 42 wherein said first target comprises a first water-based medium; and said second target comprises a second water-based medium.

[Claim 44] A method as in claim 39 for non-locally transmitting a first message from said first location to said second location and/or a second message from said second location to said first location wherein said specification steps further comprise the step of:

defining said first message to be transmitted from said first location to said second location by said second non-local effect and/or said second message to be transmitted from said second location to said first location by said first non-local effect; whereby said first message and/or said second message are non-locally transmitted.

[Claim 45] A method as in claim 44 wherein said treatment of said first target and/or second target comprises contacting or quantum-entangling said first target and/or second target with a third target which comprises a third substance, mixture of substances, physical system, chemical system or biological system.

[Claim 46] A method as in claim 45 wherein said first target comprises a first water-based medium; said second target comprises a second water-based medium; said third target comprises said third chemical substance or mixture of chemical substances; and said treatment of said first target and/or second target comprises dissolving said third target in said first and/or second target.

[Claim 47] A method as in claim 44 wherein said first target comprises said first chemical substance or mixture of chemical substances; said second target comprises said second chemical substance or mixture of chemical substances; and said treatment of said first target and/or second target comprises cooling, heating, or irradiating said first target and/or second target.

[Claim 48] A method as in claim 47 wherein said first target comprises a first water-based medium; and said second target comprises a second water-based medium.

[Claim 49] An apparatus for producing a quantum entanglement between a first target and a second target, a first non-local effect of said second target on said first target and/or a second non-local effect of said first target on said second target which comprises:

a quantum-entanglement generating source which emits a plurality of quantum-entangling members when said source operates; and

a first container for holding said first target disposed next to said source, said first target comprising a first substance, mixture of substances, physical system, chemical system or biological system;

such that when said first container is filled with said first target and disposed next to said second target which comprises a second substance, mixture of substances, physical system, chemical system or biological system and said source operates, said members interact with said first target and said second target generating said quantum entanglement, said first non-local effect which comprises a first non-local physical, chemical or biological effect and/or said second non-local effect which comprises a second non-local physical, chemical or biological effect.

[Claim 50] An apparatus as in claim 49 wherein said first target comprises an anesthetic, therapeutic, recreational, performance-enhancing, disease-preventing or health-enhancing substance in said first container; said second target comprises a human or animal; said source comprises a photon or magnetic pulse generator; and said second non-local effect comprises said second non-local biological effect.

[Claim 51] An apparatus as in claim 50 wherein said first target comprises chloroform, isoflurane, dymethyl ether, ethanol, tribromoethanol, morphine sulfate, fentanyl, nicotine or caffeine in said first container disposed next to a selected head area of said human or animal; said photon or magnetic pulse generator comprises a magnetic coil connected to a driving mechanism and disposed next to said first container; and said second non-local biological effect comprises a non-local brain effect.

[Claim 52] An apparatus as in 49 wherein said first target comprises an anesthetic, therapeutic, recreational, performance-enhancing, disease-preventing or health-enhancing substance in said first container; said source comprises a photon or magnetic pulse generator; and said second target comprises a water-based medium in a second container.

[Claim 53] An apparatus as in 49 wherein said first target comprises a first water-based medium in said first container; said second target comprises a second water-based medium in a second container; and said source comprises a photon or magnetic pulse generator.

[Claim 54] An apparatus as in 49 wherein said first target comprises a first human or animal in said first container; second target comprises a second human or animal in a second container; and said source comprises a magnetic coil connected to a driving mechanism.

[Claim 55] An apparatus as in claim 49 which further comprises:

a second container for holding said second target disposed next to said first container; such that when said first container is filled with said first target, said second container is filled with said second target and said source operates, said members interact with said first target and said second target generating said quantum entanglement, said first non-local effect and/or said second non-local effect.

[Claim 56] An apparatus as in 55 wherein said first target comprises an anesthetic, therapeutic, recreational, performance-enhancing, disease-preventing or health-enhancing substance in said first container; said source comprises a photon or magnetic pulse generator; and said second target comprises a water-based medium in said second container.

[Claim 57] An apparatus as in 55 wherein said first target comprises a first water-based medium in said first container; said second target comprises a second water-based medium in a second container; and said source comprises a photon or magnetic pulse generator.

[Claim 58] An apparatus as in 55 wherein said first target comprises a first human or animal in said first container; second target comprises a second human or animal in said second container; and said source comprises a magnetic coil connected to a driving mechanism.

[Claim 59] An apparatus as in claim 49 which further comprises:

said first target filling said first container;

such that when said first container filled with said first target is disposed next to said second target and said source operates, said members interact with said first target and said second target generating said quantum entanglement, said first non-local effect and/or said second non-local effect.

[Claim 60] An apparatus as in claim 59 wherein said first target comprises an anesthetic, therapeutic, recreational, performance-enhancing, disease-preventing or health-enhancing substance in said first container; said second target comprises a human or animal; said source comprises a photon or magnetic pulse generator; and said second non-local effect comprises said second non-local biological effect.

[Claim 61] An apparatus as in claim 60 wherein said first target comprises chloroform, isoflurane, dymethyl ether, ethanol, tribromoethanol, morphine sulfate, fentanyl, nicotine or caffeine in said first container disposed next to a selected head area of said human or animal; said source comprises a magnetic coil connected to a driving mechanism and disposed next to said first container; and said second non-local biological effect comprises a non-local brain effect.

[Claim 62] An apparatus as in 59 wherein said first target comprises an anesthetic, therapeutic, recreational, performance-enhancing, disease-preventing or health-enhancing substance in said first container; said source comprises a photon or magnetic pulse generator; and said second target comprises a water-based medium in a second container.

[Claim 63] An apparatus as in 59 wherein said first target comprises a first water-based medium in said first container; said second target comprises a second water-based medium in a second container; and said source comprises a photon or magnetic generator.

[Claim 64] An apparatus as in 59 wherein said first target comprises a first human or animal in said first container; second target comprises a second human or animal in a second container; and said source comprises a magnetic coil connected to a driving mechanism.

[Claim 65] An apparatus as in claim 55 which further comprises:
said first target filling said first container;
such that when said second container is filled with said second target and said source operates, said members interact with said first target and said second target generating said quantum entanglement, said first non-local effect and/or said second non-local effect.

[Claim 66] An apparatus as in claim 65 wherein said first target comprises an anesthetic, therapeutic, recreational, performance-enhancing, disease-preventing or health-enhancing substance in said first container; said second target comprises a human or animal in said second container; said source comprises a photon or magnetic pulse generator; and said second non-local effect comprises said second non-local biological effect.

[Claim 67] An apparatus as in 65 wherein said first target comprises an anesthetic, therapeutic, recreational, performance-enhancing, disease-preventing or health-enhancing substance in said first container; said source comprises a photon or magnetic pulse generator; and said second target comprises a water-based medium in said second container.

[Claim 68] An apparatus as in 65 wherein said first target comprises a first water-based medium in said first container; said second target comprises a second water-based medium in said second container; and said source comprises a photon or magnetic pulse generator.

[Claim 69] An apparatus as in 65 wherein said first target comprises a first human or animal in said first container; second target comprises a second human or animal in said second container; and said source comprises a magnetic coil connected to a driving mechanism.

[Claim 70] An apparatus as in Claim 49 for producing quantum entanglement within said first target wherein said source comprises a photon or magnetic pulse generator such that when said first container is filled with said first target, said second target is absent and said source operates, said members interact with said first target generating said quantum entanglement within said first target.

[Claim 71] An apparatus as in claim 70 wherein said substance comprises a water-based medium in said first container; and said photon or magnetic pulse generator comprises a laser or magnetic coil connected to a driving mechanism disposed next to the said first container or microwave oven enclosing said first container.

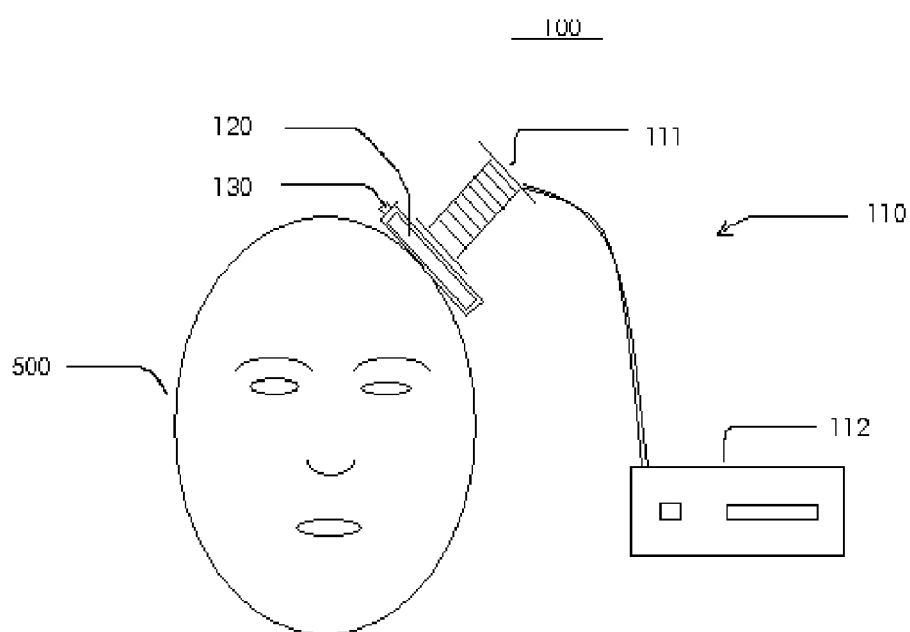
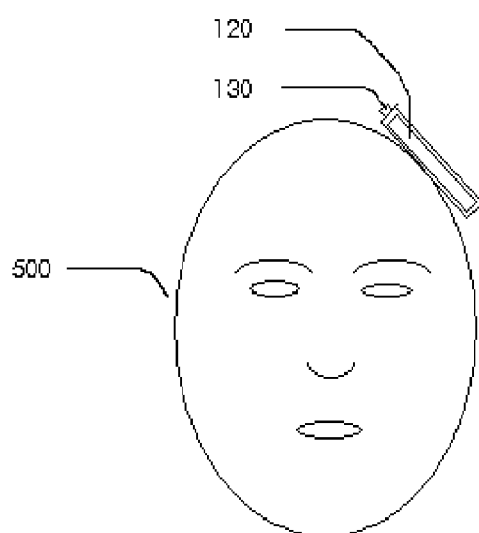


FIG. 1A

*FIG. 1B*

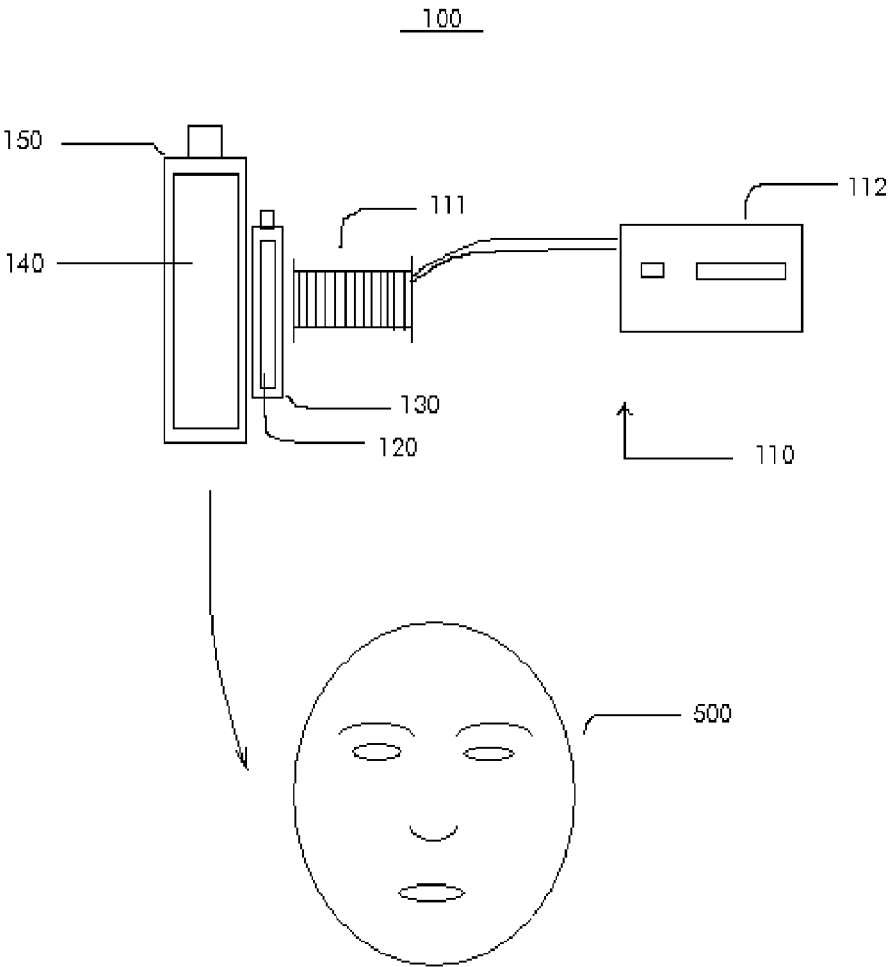


FIG. 2A

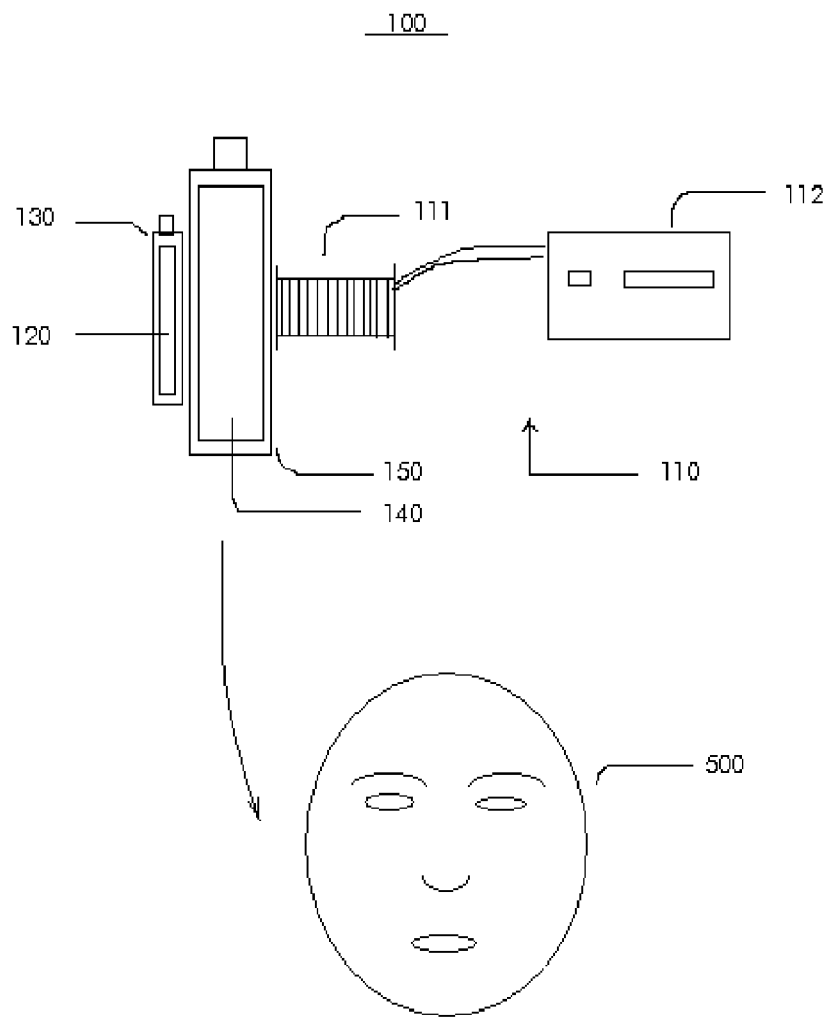


FIG. 2B

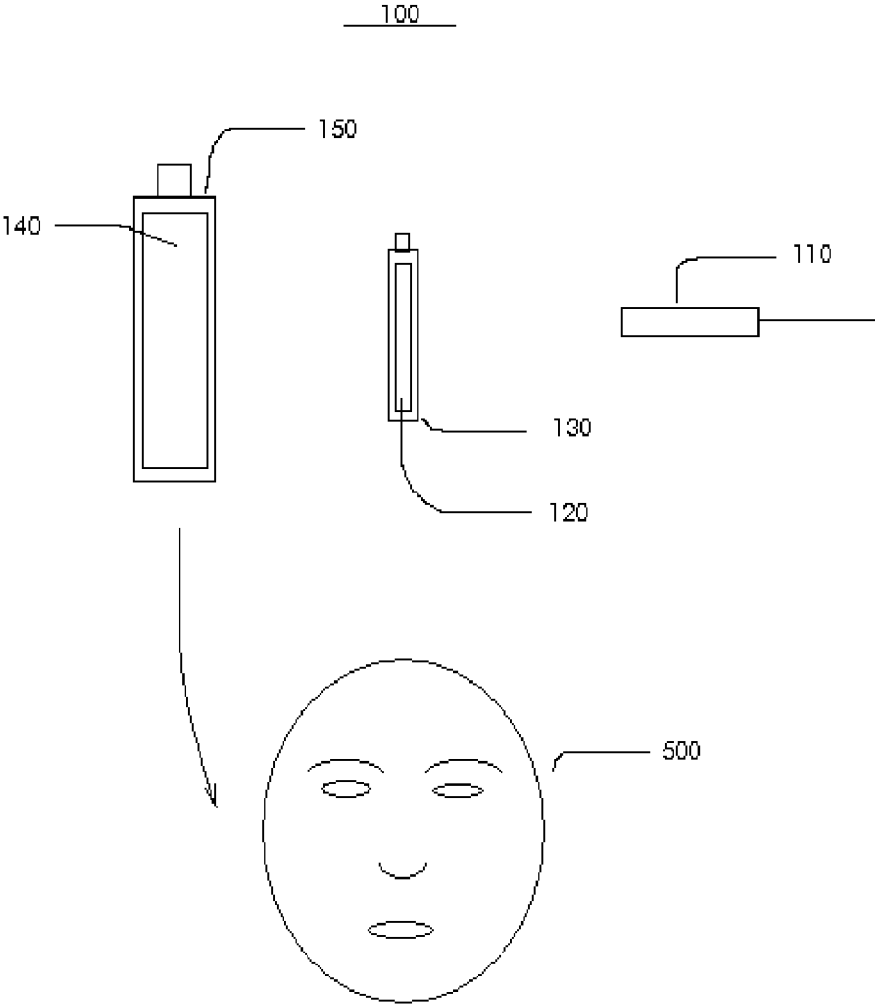


FIG. 3A

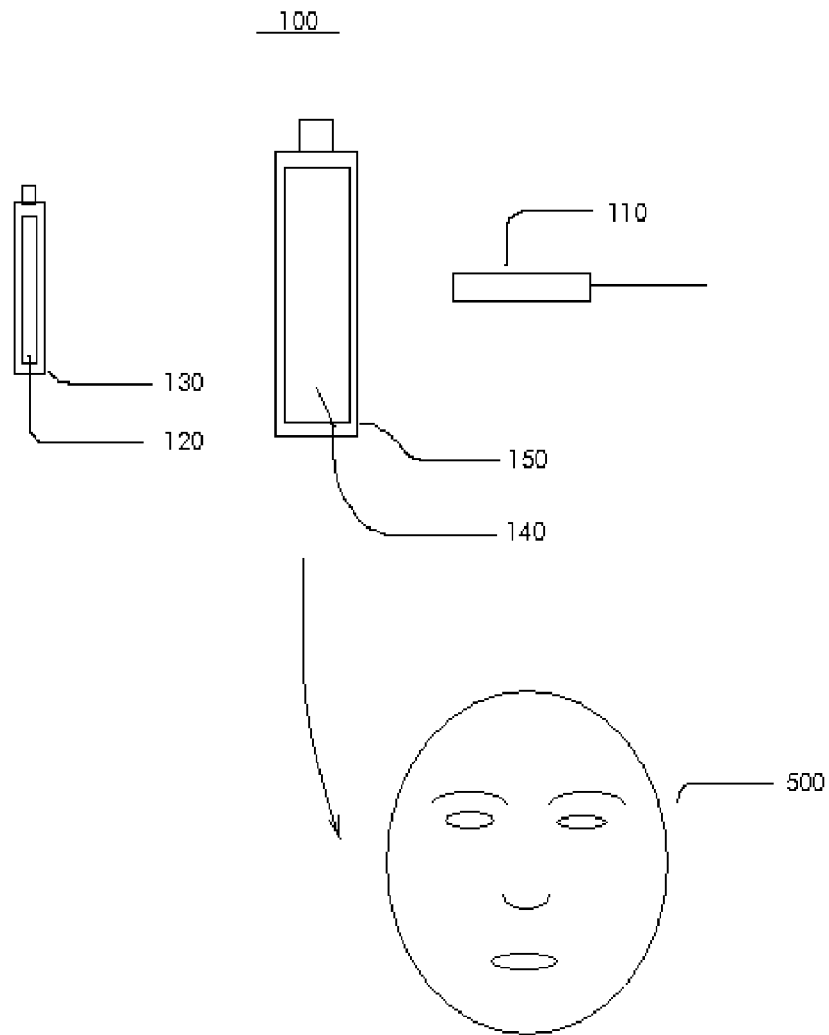


FIG. 3B

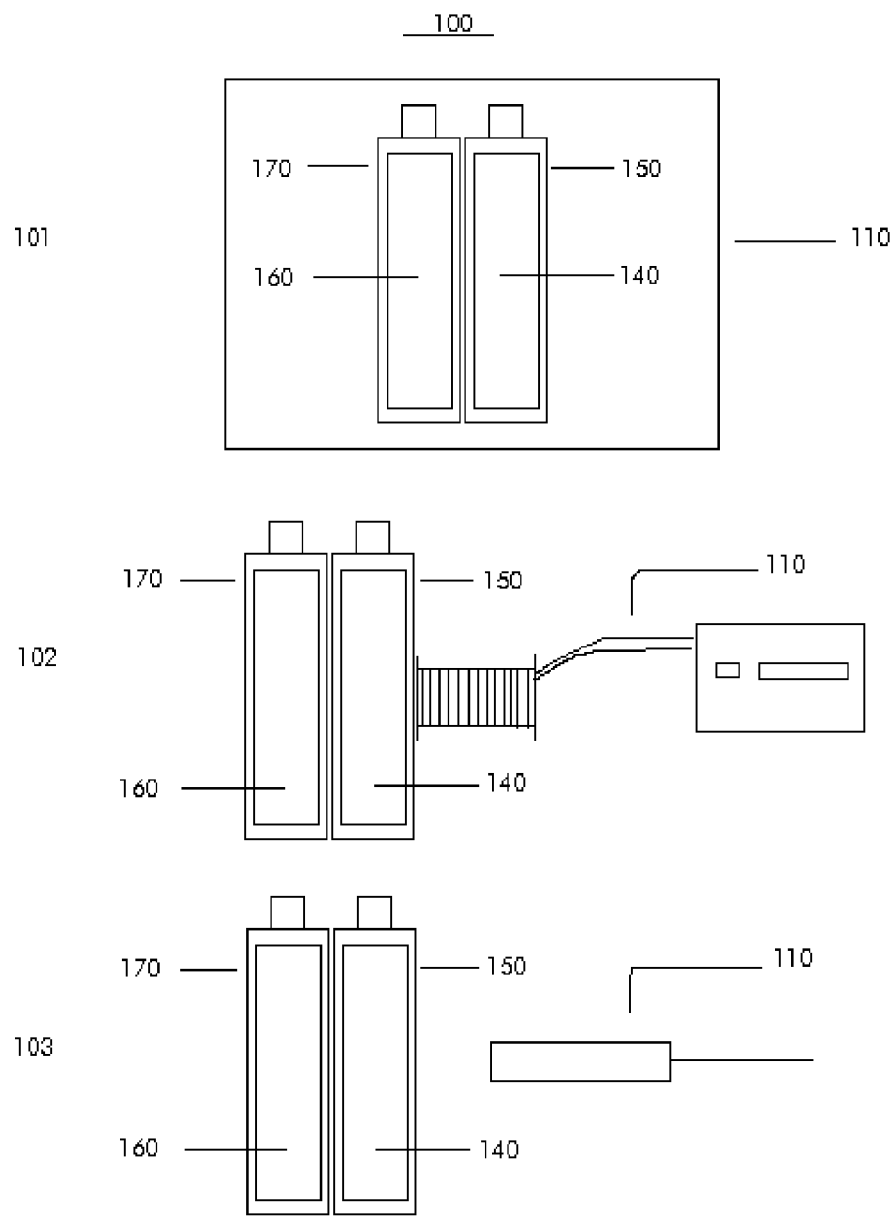


FIG. 4A

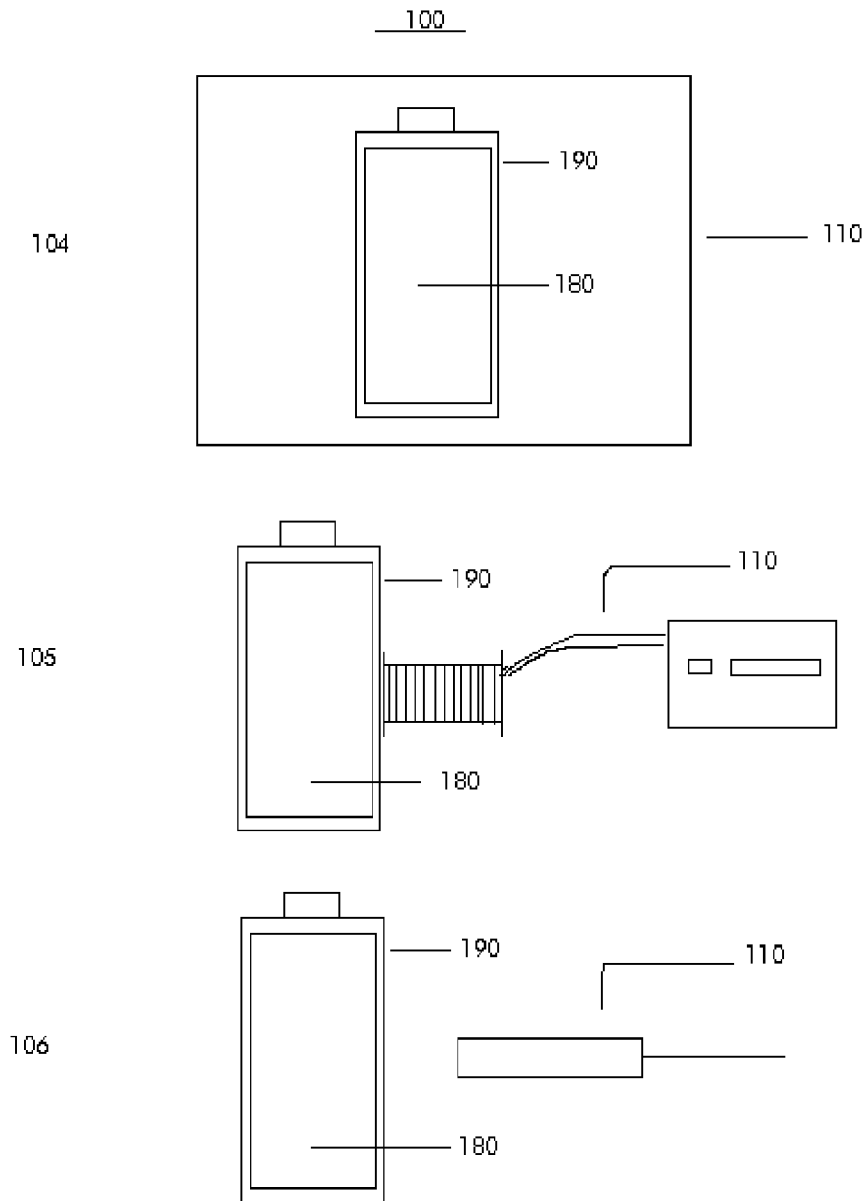
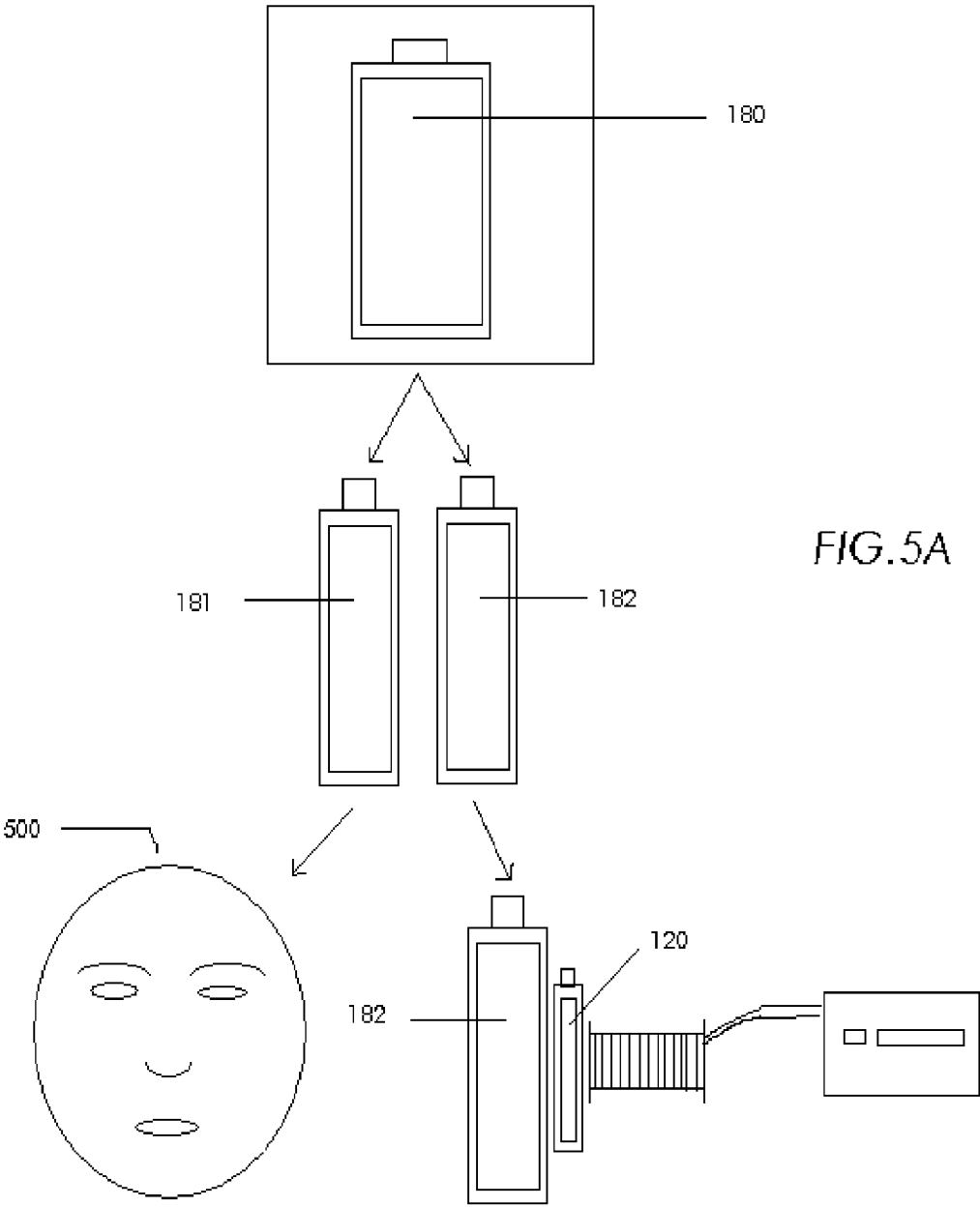
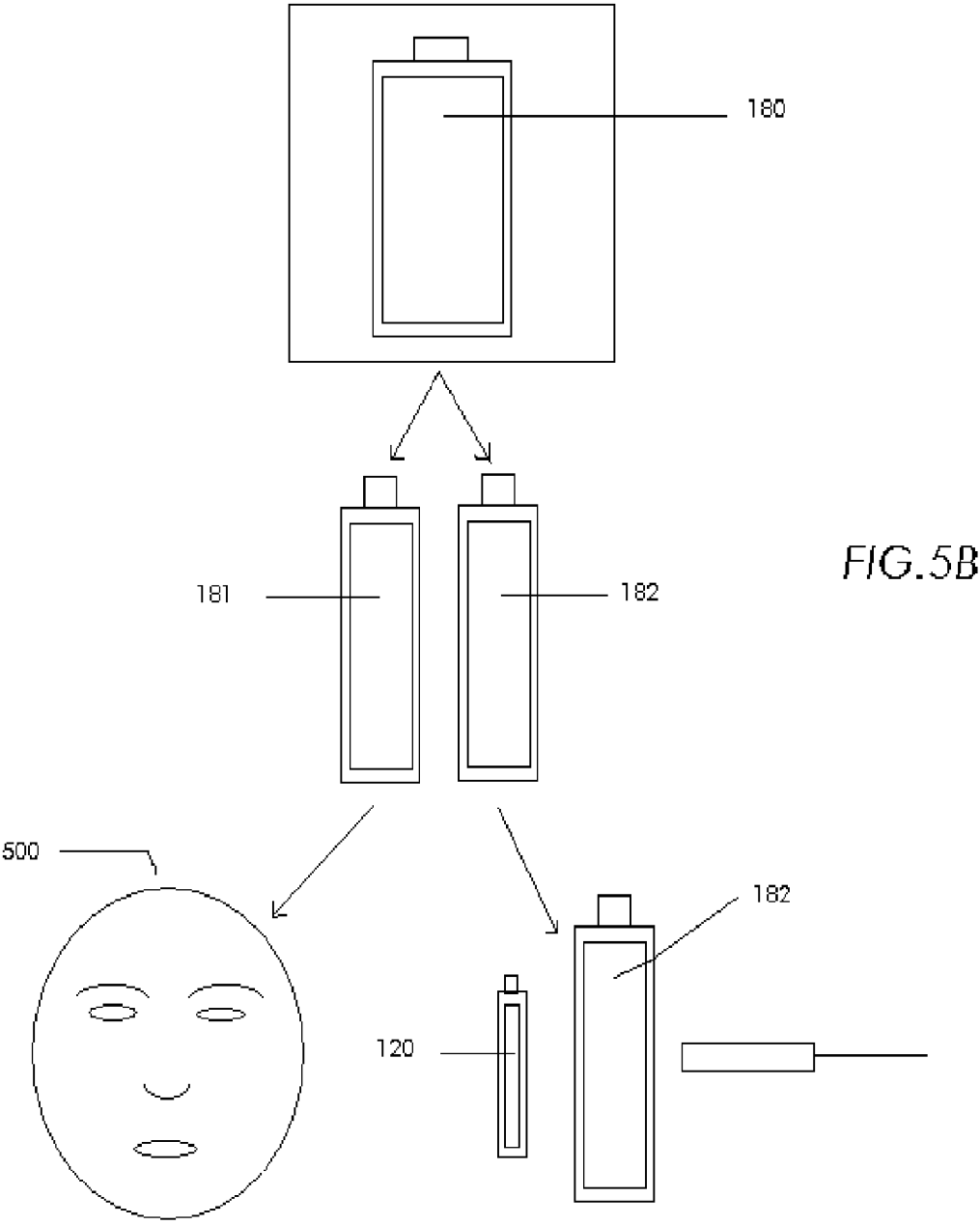
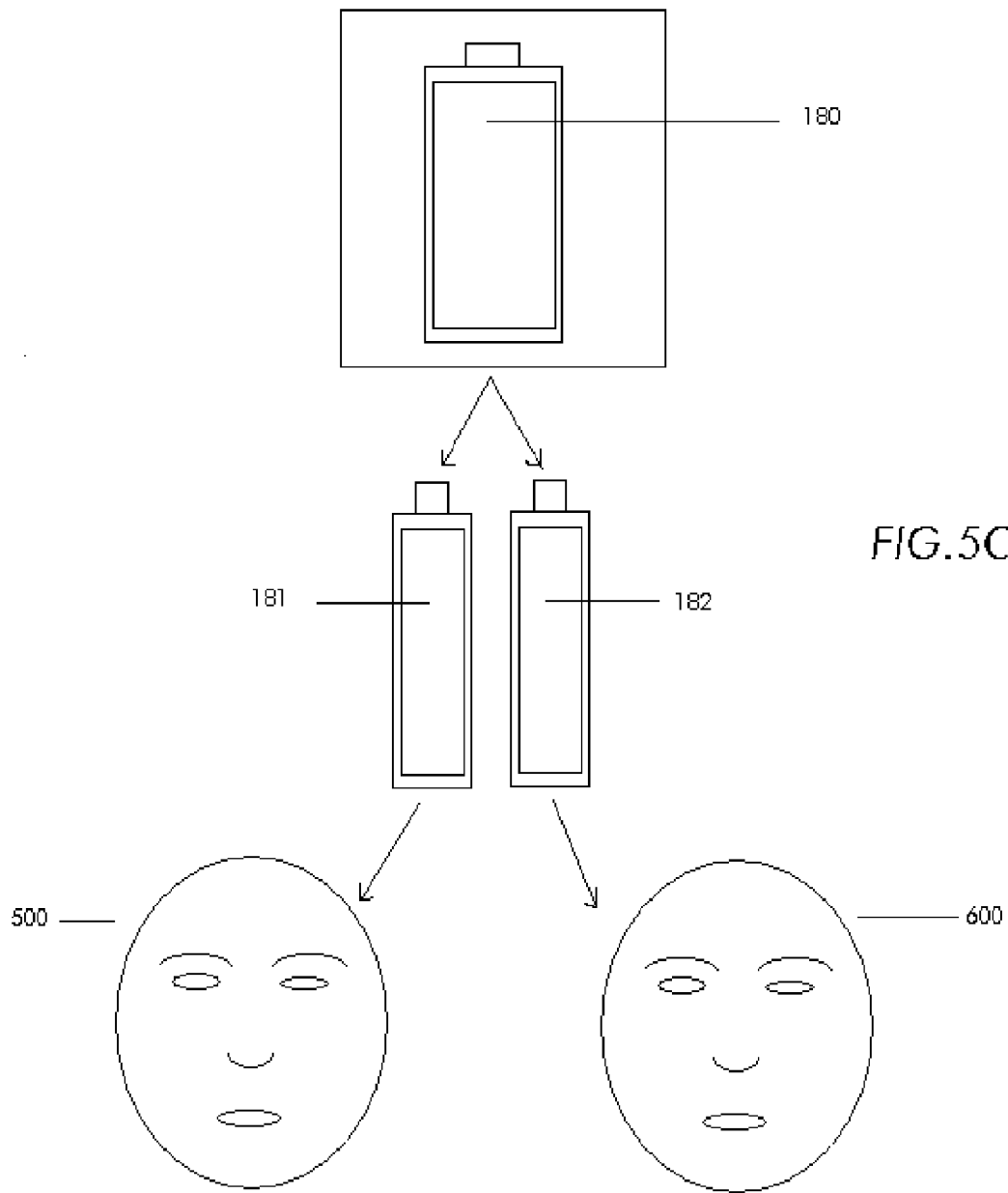


FIG. 4B







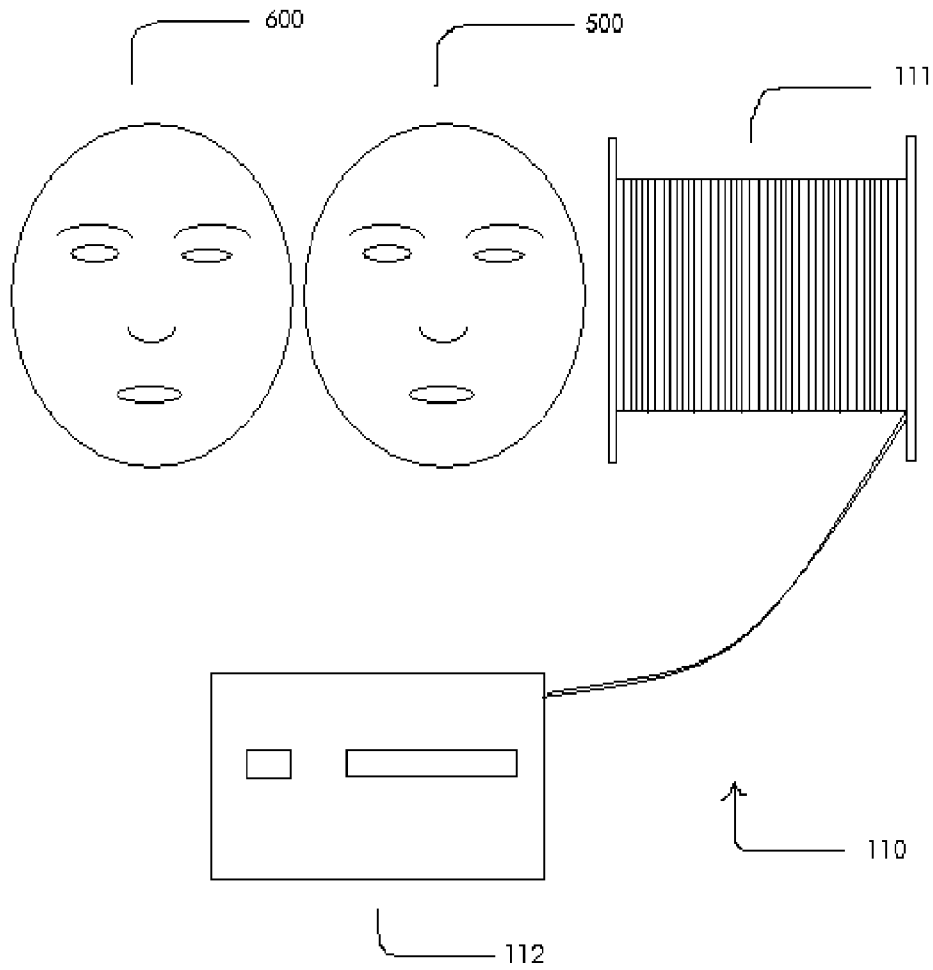


FIG. 6