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(54) Title: WEARABLE DEVICE FOR MITIGATING SYMPTOMS OF NEUROLOGICAL CONDITIONS OF USERS AND METHOD FOR USING SAME

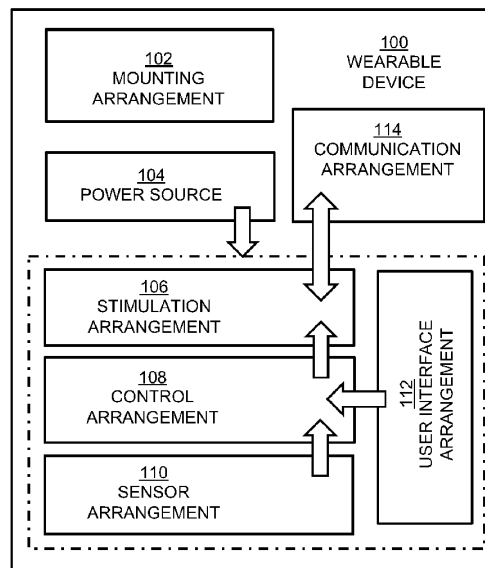


FIG. 3

(57) Abstract: There is provided a wearable device (100, 200, 300, 400, 600, 700, 802) for mitigating symptoms of a neurological condition of a user (202, 302, 602), wherein the wearable device includes: a mounting arrangement (102) for detachably mounting the wearable device to the user; a power source (104) for providing electrical power to the wearable device when in use. The wearable device (100, 200, 300, 400, 600, 700, 802) comprises moreover: a stimulation arrangement (106) for applying a stimulation to the user, wherein the stimulation includes vibrational stimulation or auditory stimulation, or both vibrational stimulation and auditory stimulation, a sensor arrangement (110) for sensing characteristics of the user to generate an input signal; wherein the sensor arrangement includes one or more motion sensors and/or one or more biosensors to sense a motion patterns and/or a biological patterns of the user (202, 302, 602), wherein the motion patterns and/or biological patterns are associated with the symptoms of the neurological condition of the user (202, 302, 602); and a control arrangement (108) for processing the input signal to generate a corresponding output signal for driving the stimulation arrangement (106) for applying the stimulation to the user. The wearable device is configured to excite

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Declarations under Rule 4.17:

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the stimulation arrangement to provide pulsing period stimulation (VS2, AS2) during a pulsing period and to provide resting period stimulation (VS1, AS1) during a resting period, wherein the pulsing period stimulation (VS2, AS2) is greater in amplitude than the resting period stimulation (VS1, AS1), wherein the pulsing period and the resting period are included within a cueing period, wherein the wearable device is configured to provide a concatenated series of such cueing periods, and wherein the wearable device is configured to provide cueing.