IMPEDANCE MONITORING METHOD AND NON-IMPLANTABLE ELECTRICAL STIMULATION DEVICE

ABSTRACT

An impedance monitoring method is applied to a non-implantable electrical stimulation device including an electrical stimulator and an electrode assembly. The electrical stimulator is detachably electrically connected to the electrode assembly, and stores the impedance values of the electrical stimulator and the electrode assembly. The impedance monitoring method includes the following steps. The electrical stimulator generates an electrical stimulation signal. The electrical stimulation signal performs electrical stimulation of a target area through the electrode assembly. The electrical stimulator samples the electrical stimulation signal to calculate the total impedance value corresponding to the electrical stimulation signal. The electrical stimulator calculates the tissue impedance value according to the total impedance value, the impedance value of the electrical stimulator, and the impedance value of the electrode assembly. The tissue impedance value is used to calculate the energy value corresponding to the electrical stimulation signal transmitted to the target area.

FIG. 2