

IMPEDANCE-MONITORING METHOD, ELECTRICAL-STIMULATION SYSTEM, AND COMPUTER-READABLE STORAGE MEDIUM

ABSTRACT

An impedance-monitoring method, applied to an electrical-stimulation device and a lead, is provided. The electrical-stimulation device stores a first impedance value of the electrical-stimulation device and a second impedance value of the lead. The method includes the following steps: utilizing the electrical-stimulation device to generate an electrical-stimulation signal, and to perform electrical stimulation on a target area using the electrical-stimulation signal; utilizing the electrical-stimulation device to sample the electrical-stimulation signal to calculate a total impedance value corresponding to the electrical-stimulation signal; and utilizing the electrical-stimulation device to calculate a tissue-impedance value according to the total impedance value, the first impedance value of the electrical-stimulation device, and the second impedance value of the lead. The tissue-impedance value is used to calculate the energy value of the electrical-stimulation signal transmitted to the target area.

FIG. 2A