

Abstract

Disclosed are a central nerve magnetic stimulation device and a healthcare or medical instrument having same. The central nerve magnetic stimulation device comprises a power source, a control circuit and a coil component, the control circuit comprising a main control chip and a main circuit, the power source supplying power to the control circuit, and the control circuit outputting a time-varying current to the coil component to generate a corresponding time-varying magnetic field. The area of the time-varying magnetic field matches the size of a head, and the time-varying current is output at a frequency above 2000 Hz, and constitutes a rhythmic burst string at a suitable duty ratio or creates an envelope output rhythm characteristic in a difference frequency fashion. The central nerve magnetic stimulation device can apply, to the brain, a rhythmic burst of magnetic stimulations with a weak intensity high-frequency carrier wave and an approximately uniform intensity distribution of a magnetic field and which can arrive at the deep brain, and is used for manufacturing a healthcare or medical instrument for improving the functions of the brain and the treatment of brain diseases.

FIG.1