Protective Mechanism for a Wireless Charging Receiver System

Abstract

An electronic device (2), in particular a hearing instrument, comprises a consuming unit (6) consuming electric energy in an operational state of the electronic device (2), a rechargeable battery (4) operable to supply the consuming unit (6) with electrical energy, and an electric receiver circuit (14) including a receiver coil (20). The receiver coil (20) is operable to receive a magnetic or electromagnetic field in a charging state of the electronic device, and to produce an electric charging current for charging the battery. The electronic device further comprises an electric power management circuit (10) operable to control the charging current fed to the battery (4), and at least one means (34, 44, 44', 48, 48') for preventing or reducing an overcurrent or overvoltage situation of the charging current.

Fig. 2