ABSTRACT

A power adapter, a terminal, and a method for handling an impedance anomaly in a charging loop are provided. The power adapter includes a power conversion unit and a charging interface. The power conversion unit forms a charging loop with a terminal through the charging interface. The power adapter includes a communications unit, a detection unit, and an anomaly handling unit. The communications unit is configured to receive voltage indicative information from the terminal, the voltage indicative information indicating an input voltage of the terminal. The detection unit is configured to detect an output voltage of the power adapter. The exception processing unit is configured to determine whether an impedance of the charging loop is abnormal according to a difference between the input voltage and the output voltage, and to control the charging loop to enter into a protection state if the impedance of the charging loop is abnormal.

ABSTRACT

A power adapter, a terminal, and a method for processing an impedance exception of a charging loop. The power adapter (10) comprises a power conversion unit (11) and a charging interface (12). The power conversion unit (11) forms a charging loop with a terminal through the charging interface (12), so as to charge a battery of the terminal. The power adapter (10) also comprises a communications unit (13), a detection unit (14), and an exception processing unit (15). The communications unit (13) is used for receiving voltage indication information from the terminal when the power adapter (10) charges the terminal, the voltage indication information being detected by the terminal and indicating an input voltage of the power adapter (10). The detection unit (14) is used for detecting an output voltage of the power adapter (10). The exception processing unit (15) is used for determining whether an impedance of the charging loop is exceptional according to a difference between the input voltage and the output voltage, and when the impedance of the charging loop is exceptional, controlling the charging loop to enter into a protection state, thereby improving the security of a charging process.