

ELECTRONIC DEVICE AND WIRED/WIRELESS CHARGING CONTROL METHOD IN ELECTRONIC DEVICE

【ABSTRACT】

An electronic device according to an embodiment comprises: a battery; wireless charging circuit including rectifying circuitry for rectifying alternating current power received wirelessly through an antenna module, and a regulator that converts a voltage of rectified direct current power to a designated battery charging voltage and outputs same; a power management module that charges the battery on the basis of the power output from the wireless charging circuitry; wired charging circuitry for charging the battery on the basis of power received by wire through a connector; and a processor, wherein the processor may be configured to: identify entry to a wireless charging standby state on the basis of a wireless-charging connection through the wireless charging circuitry and a wired-charging connection through the wired charging circuitry; control, upon the entry to the wireless charging standby state, an output voltage of the wireless charging circuitry to become a designated voltage that is lower than the battery charging voltage; and turn off the regulator so that the power is not provided from the wireless charging circuitry to the power management module after a designated time period in a state where the output voltage reaches the designated voltage. The present invention may include other different embodiments.

Fig. 4