

CHARGING APPARATUS

ABSTRACT OF THE DISCLOSURE

A charging apparatus 100 for controlling in a manner such that a charging is performed to a connected secondary battery 101 by a constant current of a constant voltage or less and, when a terminal voltage of the secondary battery rises the constant voltage, the charging is performed by a constant voltage of the constant current or less. The charging apparatus is made up of: a switch 102 for shutting off a charge current at a certain period; a comparator 105 for comparing a voltage difference between a first voltage on a power source side than the switch when the charge current is shut off and a second voltage on the secondary battery side with a reference voltage; and a control unit 107 for switching a voltage to a first voltage higher than the first voltage when the charge current is supplied, switching the voltage to the same voltage as the first voltage when the charge current is shut off, and switching the voltage to the same voltage as the first voltage when finishing the charging in accordance with the comparison result.

FIGURE 4B