

ABSTRACT OF THE DISCLOSURE

AUTOMATIC MOTOR-GENERATOR CHARGER

Provided is an automatic motor-generator charger using a
5 motor-generator. The automatic motor-generator charger includes
a motor generator and a circuit unit. The motor generator and
the circuit unit are integrated with each other in a case (not
shown). The motor-generator operates by receiving electric power
from a battery. The battery is charged in accordance with the
10 electricity generating operation of the motor-generator. The
circuit unit includes a relay for selectively supplying electric
power of the battery to a motor winding of the motor-generator, a
charging unit for charging the battery by using a voltage applied
from generator windings, a low voltage detecting unit for
15 detecting a low voltage of the battery, a charging display LED
for displaying a charging state, and a control unit for, in
accordance with an input from the low voltage detecting unit,
controlling the relay and charging unit, turning on and off the
charging display LED during charging, and displaying an operating
20 state on the display unit.

[Figure 2]