

ABSTRACT OF THE DISCLOSURE (FIG. 3)

"ELEVATOR CONTROL APPARATUS"

An elevator control apparatus having a rectifier circuit to convert AC power from an AC power supply to DC power, a smoothing capacitor to smooth a ripple of the DC power converted by the rectifier circuit, an inverter which is formed by connecting diodes and switching elements in the form of a bridge, and outputs the smoothed DC power by converting to variable voltage/frequency AC power, an electric motor which moves an elevator up and down car by driving from the AC power output from the inverter, a run control unit which controls energizing/interruption of each switching element of the inverter so that the variable voltage/frequency AC power is output according to a predetermined operation pattern, a brake unit which mechanically brakes movement of the elevator car, a brake control unit which operates the brake unit to stop movement of the elevator car when the elevator car arrives at a floor, an error detector which detects a malfunction of the brake unit when the elevator car arrives at a floor, and a regenerative brake control unit which regeneratively brakes the electric motor by closing the switching elements of one polarity side of the inverter, and opening the switching elements of the other polarity side, when a malfunction of the brake unit is detected by the error detector.