ELEVATOR EQUIPPED WITH AN ELECTRONIC SAFETY SYSTEM

ABSTRACT

An elevator equipped with an electronic safety system includes: a safety controller (40) to issue to plural stopping devices (3, 6, 15) command signals to bring an elevator car (1) to a safe state; wherein the safety controller (40) has plural CPUs (50, 60) each comprising a processing unit (72, 82) to calculate internal stop signals (51'-54', 61'-64'), candidate values for car stop signals (51-54, 61-64) that activate the stopping devices (3, 6, 15) according to the detection signals, and an output adjusting unit (74, 84) determining the car stop signals (51-54, 61-64) based on the internal stop signals (51'-54', 61'-64'); each output adjusting unit (74, 84) arbitrates between the internal stop signals (51'-54', 61'-64') produced in the local CPU and the car stop signals (51-54, 61-64) determined by the other output adjusting unit (74, 84) in the remote CPU and outputs arbitrated car stop signals (51-54, 61-64) to the plural stopping devices (3, 6, 15).

FIGURE 3