

ABSTRACT

APPARATUS FOR EFFICIENTLY MANAGING A PLURALITY OF ELEVATORS

An apparatus for efficiently managing a plurality of elevators in a group management apparatus in which input and output devices that are mutually related are combined into one group and connected as a network, which does not require any complicated wiring and thus the utilized equipment, repairing and maintenance of the overall elevator system are simplified. The input and output signals are dispersed to each node and each elevator controller to be processed, thereby enhancing the efficiency of the elevator controller which includes a hall subnetwork serially connecting one hall node on each floor to a group management node, an elevator subnetwork connecting an elevator node and a elevator node in each elevator, and a router for logically/electrically separating the hall subnetwork and the elevator subnetwork, thereby preventing a failure of the elevator or a failure on the network connecting hall nodes or a failure on the elevator subnetwork from affecting the entire group management network to enhance the overall elevator system reliability.

(Figure 2)