

Abstract

ELEVATOR DOOR SYSTEM HAVING VARIABLE OPENING/CLOSING WIDTH

An elevator door system having variable opening/closing width includes a button (1) located in the hall in the loading area for calling the elevator car to that hall, multiple destination floor buttons (2) in the elevator car which indicate the destination floor of the elevator car when pressed, a load sensor (3) which measures the load applied to the elevator car, a door operator (4) which opens the door completely or less than the completely opened width, and a controller (5) which inputs the signals from said hall button (1), destination floor buttons (2), and load sensor (3) and outputs a drive signal to said door operator (4). In the controller, the number of passengers in the elevator car is computed from the load measured by said load sensor (3), and when the result obtained by dividing the number of passengers by the number of destination floor buttons (2) pressed is one or less and a hall call is not generated at the destination floor, a signal which opens the door less than the completely opened width is output from the door operator (4).