

ABSTRACT

OPERATION SPEED COMMAND CONTROLLING APPARATUS AND METHOD FOR ELEVATOR

An improved operation command controlling apparatus and method for an elevator thereof which are capable of reducing a waiting time of a passenger at a floor, which includes a car call button and a floor call button for generating a car call signal or a floor call signal, an operation sequence management unit for determining an operation speed pattern to be commanded to an elevator car, determining a priority call among calls registered by the car call button and the floor call button, and generating an operation speed pattern, an operation speed command generator for determining a Jerk acceleration speed and a response time from an acceleration speed pattern set by an operating interval based on the operation speed pattern occurs in accordance with a priority call among calls registered by the operation sequence management unit and a car call from the floor or a floor call from the car, obtaining a reference speed profile by an interval, and generating an operation command proportional to a difference between a reference position profile obtained by integrating the speed profile and a position value of the current elevator car detected by a car position detector, and an electric power amplifier for amplifying the operation speed command value for operating a motor unit of a driving unit including a pulley and a motor for moving the elevator car to works in accordance with the reference speed profile.