

Abstract

An elevator system (1) is described. The elevator system has: an elevator car (5) which is arranged to be vertically displaceable in an elevator shaft (3) of a building, which has a car door opening (6) for entering or exiting the elevator car (5) and which has a car door (7) for opening or closing the car door opening (6); a car door drive (8) which is mechanically coupled to the car door (7); a car door control unit (14) which is communicatively coupled to the car door drive (8); a hoistway door (11) which is arranged on a floor (10) of the building at a hoistway door opening (9) of the elevator shaft (3) and which is designed to open or close the hoistway door opening (9); a hoistway door drive (13) which is mechanically coupled to the hoistway door (11); a hoistway door control unit (19) which is communicatively coupled to the hoistway door drive (13), wherein the car door (7) or the hoistway door (11) is designed as a leading door, the corresponding control unit as a leading control unit, and the corresponding door drive as a leading door drive, and wherein the other of the two doors is designed as a follower door, the other of the two control units as a follower control unit, and the other of the two door drives as a follower door drive; a transmitter (15) for generating a position signal, which is arranged on the leading door and faces the follower door; a receiver (17) for receiving the position signal, which is arranged on the follower door, which is communicatively coupled to the follower control unit and which faces the leading door, wherein the leading control unit is designed to generate a leading control signal for the leading door drive for opening or closing the leading door, depending upon a specified leading door travel curve, after the elevator car (5) has arrived at the floor (10), and wherein the follower control unit is designed to generate a follower control signal for the follower door drive for opening or closing the follower door, depending upon the received position signal, in such a way that, when the leading door moves, the follower door follows the leading door.

Fig. 2