

ABSTRACT

The invention relates to an elevator installation (10) comprising at least one car (12, 14), which has a safety gear (74, 80) and with which a control unit (28, 30), a drive (20, 22) and a brake (23, 24) are associated, and further comprising a safety device (42) for avoiding a collision of the car (12, 14) with an obstacle, another car or an end of the shaft, it being possible by means of the safety device (42) to compare an actual distance of the car from an obstacle, another car or an end of the shaft with a minimum distance and a critical distance. If the actual distance goes below the minimum distance, an emergency stop can be triggered. If the actual distance goes below the critical distance, the safety gear (74, 80) of the car (12, 14) can be triggered. In order to develop the elevator installation in such a way that the distance that is to be maintained at the least by the car (12, 14) from an obstacle, another car or an end of the shaft can be reduced without an emergency stop or a safety gear (74, 80) being triggered, but a car collision can be reliably prevented, it is proposed that it is possible by means of the determining unit (60) of the safety device (42) to determine the critical distance in accordance with a prescribable emergency stop triggering curve (93) and the minimum distance in accordance with a prescribable safety gear triggering curve (90), the safety gear triggering curve (90) not touching the emergency stop traveling curve (94), and that it is possible to trigger the safety gear (74, 80) even before the car (12, 14) has reached the location with which the speed of zero is associated according to the emergency stop traveling curve (94).