

AN ELEVATOR

Abstract

An elevator comprising

- a hoistway (H);

- an elevator car (1) vertically movable in the hoistway (H);

- a counterweight (2) vertically movable in the hoistway (H);

- at least one tightening wheel (3) located in the lower end of the hoistway (H);

- at least one rope wheel (6) located in or at least in proximity of the upper end of the hoistway (H);

- a first roping (R) interconnecting the car (1) and counterweight (2) and passing around the at least one rope wheel (6) located in or at least in proximity of the upper end of the hoistway (H);

- a second roping (4) interconnecting the car (1) and counterweight (2) and passing around the at least one tightening wheel (3), the tightening wheel being mounted movably back and forth in a first direction (A) towards the second roping (4), and in a second direction (B) away from the second roping (4); and

- means (5,5') for exerting force (F_5 , $F_{5'}$) on the tightening wheel (3) to move it in the first direction (A) so as to tighten the second roping (4).

The elevator further comprises means for limiting the movement speed of the tightening wheel (3) towards the first direction (A) and the second direction (B).

Figure 1