

AN ELEVATOR

Abstract

The invention relates to an elevator comprising a car (1) and a counterweight (2); a rotatable drive member (3) one or more suspension ropes (4) interconnecting the car (1) and the counterweight (2) and passing over the rotatable drive member (3); wherein each of the suspension rope(s) (4) has a first rope section (4a) on the first side of the drive member (3) and a second rope section (4b) on the second side of the drive member (3), the first section(s) (4a) of the rope(s) (4) being connected to the car (1) to suspend the car (1); and the second section(s) (4b) of the rope(s) (4) being connected to the counterweight (2) to suspend the counterweight (2), a drive machinery (b,m,6,21,22) controlling rotation of the drive member (3). The elevator comprises a rope tension sensing means (7,7') mounted on the counterweight (2) and arranged to sense tension of the second section(s) (4b) of the rope(s) (4); and in that said rope(s) (4) comprise(s) electrically conducting member(s) (5) extending continuously along the length of the rope(s) (4) forming an electrically conducting connection between the car (1) and counterweight (2); and in that the rope tension sensing means (7,7') are functionally connected with the drive machinery (b,5,6,21,22) via said electrically conducting connection between the car (1) and counterweight (2) such that reduced rope tension of the second rope section(s) (4b) sensed by the rope tension sensing means (7,7') triggers the drive machinery (b,5,6,21,22) to brake rotation of the drive member (3) and/or to stop rotating the drive member (3).

Figure 1