AN ELEVATOR

Abstract

The invention relates to an elevator comprising

a hoistway (H);

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

a plurality of ropes (3) connected to the car (1);

a rotatable traction member (6) comprising a circumferential traction surface area for each of the several ropes (3a, 3b, 3c);

each rope (3a,3b,3c) being arranged to pass around the rotatable traction member (6) resting against a circumferential traction surface area (11a,11b,11c) of the traction member (6);

drive machinery (M) for controlling rotation of the rotatable traction member (6).

The elevator comprises means for detecting displacement of each of the ropes (3a,3b,3c) over a first limit position (L1a,L1b,L1c) of the rope in the first axial direction (X_1) of the rotatable traction member (6), and over a second limit position (L2a,L2b,L2c) of the rope in the second axial direction (X_2) of the traction member (6); and in that

displacement of one or more of said ropes (3a,3b,3c) in axial direction of the rotatable traction member (6) over the first or second limit position (L1a,L2a;L1b,L2b;L1c,L2c) is arranged to trigger the drive machinery (M) to stop the rotation of the rotatable traction member (6).

Figure 1a