

AN ELEVATOR

Abstract

A counterweightless elevator comprising a hoistway (H), a car (1) vertically movable in the hoistway (H), one or more suspension ropes (2), a rotatable drive member (3) engaging said suspension rope(s), each of the suspension rope(s) (2) having a first rope section (2a) on the first side of the drive member (3) and a second rope section (2b) on the second side of the drive member (3), and each rope section (2a,2b) being connected to the car, said first rope section (2a) suspending the car, and a tightening device (4a,4b,4c) arranged to tighten the second rope section (2b). Each of said rope(s) (2) is belt-like and comprises a load bearing member or a plurality of load bearing members, which load bearing member(s) is/are made of composite material comprising reinforcing fibers embedded in a polymer matrix, which reinforcing fibers are carbon fibers.

Figure 1