Rope Traction Elevator Drive (IP1185)

Abstract

This elevator drive for a rope traction elevator, which is intended for installation in an elevator hoistway, consists of a gear (2) with traction sheave (6), a motor (1) in an upright position on top of the gear (2), a brake (3, 4, 5) and suspension elements (18) which are slung over the traction sheave (6) and provide vertical motion for an elevator car with a counterweight. In view of the limited amount of space available in the elevator hoistway, the elevator drive should take up as little surface area as possible. To achieve this, the motor (1) and the gear (2) are inclined at an angle of (β) to the vertical. With this slightly tilted arrangement no part of the motor (1) extends beyond the horizontal boundary of the gear (2). Furthermore, the brake (3, 4, 5) is a part of the gear (2) and non-detachably fastened to it, which makes it possible to mount the motor (1) on the gear (2), and to dismount it therefrom, without difficulty.

(Fig. 1)

This Sheet Has Been Replaced

