

ABSTRACT**Elevator with Frictional Drive**

5 The invention provides an elevator (1) comprising a movable component (2), a vertical track (6) mounted along an elevator shaft (4), driven frictional engagement means (12) for frictional engagement with one side of the track (6) with a coefficient of friction (μ_1), and support means (14) disposed on an opposite side of the track (6). The frictional engagement means (12) is pivotally mounted on a lever (16) which pivotally supports an
10 effective weight (mg) of the movable component (2) whereby the lever (16) makes an angle (α_1) with the horizontal (H). The tangent of the angle (α_1) is less than or equal to the coefficient of friction (μ_1).

15 [Fig. 1]