Abstract

Elevator Driven by a Flat Linear Motor

An elevator (10) is driven by a linear motor having an elongated flat secondary element (28) disposed in parallel to a hoistway (24) and extending along the length thereof, the secondary element (28) being supported by an edge portion (82) thereof by a support (20). The linear motor has a first primary element (30) disposed on one side of the flat secondary element, and a second primary element (32) disposed on the other side of the flat secondary element. A housing (26) supports each primary element adjacent a face of the secondary element. The housing has an opening through which the support of the secondary element passes. The housing includes a counterweight assembly (36,40) disposed at either end thereof.

[Fig. 1]