

Abstract

ELEVATOR CAB GUIDANCE ASSEMBLY

An elevator cab assembly is provided with a rail guidance system which provides a substantially vibration-free ride despite uneven passenger loading. The guidance system includes side-to-side and front-to-back rail guide rollers which are adjustably mounted on the cab frame. The rail guide rollers are pivotally mounted on links which are spring-biased toward the guide rail blades. Stops are provided on the links to limit the extent of permissible pivotal movement of the rollers away from the guide rail blades. Actuators are connected to the link springs to selectively increase the spring pressure acting on the links when the pivot stops are engaged as a result of uneven passenger loading in the cab. The actuators ensure that the roller links do not ride against the stops, thereby ensuring a continuous spring biased engagement between the guide rollers and the guide rail blades, and a substantially vibration-free ride.