Title (en)

Controller supervision for active vibration damping of elevator cars

Title (de)

Steuerungseinheit für die aktive Schwingungsdämpfung der Vibrationen einer Aufzugskabine

Title (fr)

Système de contrôle pour la réduction active des vibrations d'un cage d'ascenseur

Publication

**EP 1547955 B1 20061108 (EN)**

Application

**EP 04029142 A 20041209**

Priority

- EP 04029142 A 20041209
- EP 03405919 A 20031222

Abstract (en)

[origin: EP1547955A1] The present invention automatically detects the onset of instability of the active ride control system and activates to system shutdown if this happens. As an elevator car (1) is guided along rails (15) by guide elements (6), a plurality of sensors (11,12) mounted on the car (1) measure vibration transverse to a direction of travel. The signals from the sensors (11,12) are input to a controller (19) which in turn produces a controller output signal (F). This signal (F) is used to energise an actuator (10) positioned between the car (1) and the guide elements (6) and thereby dampen the vibrations acting on the car (1). As instability sets in, a controller signal (Fa) increases. This controller signal (Fa) is monitored by a comparator (28) such that the actuator (10) is deactivated if the controller signal (Fa) becomes greater than a predetermined value (Fa max) <IMAGE>

IPC 8 full level

**B66B 7/04** (2006.01); **B66B 7/02** (2006.01)

CPC (source: EP)

**B66B 7/027** (2013.01); **B66B 7/042** (2013.01); **B66B 7/046** (2013.01)

Cited by

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