Title (en)

DEVICE FOR VIBRATION DAMPING OF ELEVATOR CABINS

Publication

EP 0350582 B1 19920902 (DE)

Application

EP 89108041 A 19890503

Priority

CH 265288 A 19880712

Abstract (en)

[origin: EP0350582A1] Using this device, it is possible, in the case of fast-moving elevators, to isolate horizontal jolts, produced by not precisely aligned guide rails (5.1), from the cabin body (1). For this purpose, the cabin body (1) is mounted with its bottom part on ball roller buffers (8) and held with its top part in a central position by means of centring elements (10) and guide bolts (9). In the case of horizontal jolts, the bottom part of the cabin body (1) can execute a deflection movement rolling off on the ball roller buffers (8) and thus absorb these jolts. This deflection movement takes place counter to a centring spring force which is produced by a centring element (7) mounted on the bottom part of the cabin body (1). During deflection, a bolt (11) is carried along with the sliding guide sleeve (7.3) of the centring element (7) and brought into an oblique position. The rubber elastic filling (7.2) then produces the centring counterforce. The bottom part of the bolt (11) opens out into a spherical body (12) which is mounted in a ball tensioning element (13). The ball tensioning element (13) has a release and tensioning device (14), by means of which the deflection movements can be released or blocked. The release takes place during travel and the blocking takes place prior to the end of travel in order to guarantee a reliable functioning of the door coupling and the door unlocking. <IMAGE>

IPC 1-7

B66B 11/02

IPC 8 full level

B66B 11/02 (2006.01)

CPC (source: EP US)

B66B 11/0273 (2013.01 - EP US)

Cited by

US5321217A; US6443266B2; CN107226437A; GB2277918A; GB2277918B; US5439075A; US5322144A; US5402861A; EP0593296A3; CN111717762A; US5294757A; EP0467673A3; SG92600A1; EP3564173A1; EP1659306A1

Designated contracting state (EPC)

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EP 0350582 A1 19900117; **EP 0350582 B1 19920902**; AT E80123 T1 19920915; DE 58902192 D1 19921008; ES 2034476 T3 19930401; JP H0266091 A 19900306; US 5005671 A 19910409

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