

Title (en)

Device for the actuation and unlatching of the shaft doors of a lift.

Title (de)

Vorrichtung zum Betätigen und Entriegeln der Schachttüren eines Aufzuges.

Title (fr)

Dispositif pour l'entraînement et de déverrouillage des portes d'une cage d'ascenseur.

Publication

**EP 0498247 B1 19950920 (DE)**

Application

**EP 92101243 A 19920127**

Priority

US 65179891 A 19910207

Abstract (en)

[origin: EP0498247A1] Using this device, noise and vibration which occur during actuation and unlatching of a shaft door (1) which is moved by a driven car door (2) can be largely prevented. To this end, a first coupling element (3) which is mounted on the shaft door (1) and a second coupling element (4) which is mounted on the car door (2) are constructed as magnets and are arranged in such a manner that a north pole (N) of the first coupling element (3) is opposite a north pole (N) of the second coupling element (4), and a south pole (S) of the first coupling element (3) is opposite a south pole (S) of the second coupling element (4), separated by an air gap in the movement direction of the doors. Provided on a latching element of the shaft door (1) is a further magnet whose one pole is located opposite a similar pole of the second coupling element (4), with an air gap, in the movement direction of the doors. When a car stops at a floor, the repulsion forces of the magnets initially unlatch the shaft door (1) without being touched, and then move without being touched when the car door (2) opens. <IMAGE>

IPC 1-7

**B66B 13/12**

IPC 8 full level

**B66B 13/12** (2006.01); **E05B 47/00** (2006.01); **E05B 65/00** (2006.01)

CPC (source: EP US)

**B66B 13/12** (2013.01 - EP US); **E05B 47/023** (2013.01 - EP US); **E05B 47/0038** (2013.01 - EP US)

Citation (examination)

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Cited by

US5544720A; CN106829707A; CN106429761A; WO2019096755A1; WO2019096756A1; WO2007112830A1; WO2021028099A1

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