

Title (en)

Method for preventing the collision of two lift cabins moving in one shaft and corresponding lift system

Title (de)

Verfahren zum Verhindern eines Auffahrens von zwei im gleichen Schacht einer Aufzugsanlage bewegbaren Aufzugskabinen und entsprechende Aufzugsanlage

Title (fr)

Procédé destiné à empêcher les cas où deux cabines d'ascenseur se déplacent dans la même cage d'ascenseur d'une installation d'ascenseur et installation d'ascenseur correspondante

Publication

EP 1935823 B2 20170628 (DE)

Application

EP 07122657 A 20071207

Priority

- EP 06126796 A 20061221
- EP 07122657 A 20071207

Abstract (en)

[origin: US2008236954A1] A method of preventing a collision of two elevator cars of an elevator installation, which cars move substantially independently of one another in a common shaft, and an elevator installation includes a collision protection system that produces a retardation of each moved elevator car by a stopping brake as soon as the effective distance between the elevator cars falls below a critical minimum distance. After retardation of the cars by the stopping brakes, an emergency stop system comes into function. A control system of this emergency stop system ascertains the instantaneous movement state of the elevator cars. With the help of the car brakes, which are associated with the elevator cars, an additional retardation of each moved elevator car is triggered when the movement state thereof fulfils definable emergency stop criteria.

IPC 8 full level

B66B 5/00 (2006.01); **B66B 9/00** (2006.01)

CPC (source: EP KR US)

B66B 1/18 (2013.01 - KR); **B66B 5/00** (2013.01 - KR); **B66B 5/0031** (2013.01 - EP US); **B66B 5/02** (2013.01 - KR); **B66B 9/00** (2013.01 - EP US)

Citation (opposition)

Opponent :

- EP 1698580 A1 20060906 - THYSSENKRUPP AUFZUGSWERKE GMBH [DE]
- EP 1526104 B1 20060607 - INVENTIO AG [CH]
- US 1896776 A 19330207 - JAMES HENRY D
- EP 0769469 A1 19970423 - INVENTIO AG [CH]
- EP 1700809 A1 20060913 - THYSSENKRUPP AUFZUGSWERKE GMBH [DE]
- EP 1329412 A1 20030723 - MITSUBISHI ELECTRIC CORP [JP]
- US 1911834 A 19330530 - LEONARD LINDQUIST DAVID

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US 96263007 A 20071221; AR P070105632 A 20071214; AU 2007254613 A 20071220; BR PI0704981 A 20071221; CA 2638142 A 20071219; CN 200710199359 A 20071217; EP 07122657 A 20071207; HK 08113902 A 20081223; JP 2007315448 A 20071206; KR 20070134244 A 20071220; MX 2007015402 A 20071206; MY PI20072283 A 20071219; NZ 56423407 A 20071212; RU 2007147665 A 20071220; SG 2007189202 A 20071221; TW 96148651 A 20071219; ZA 200710597 A 20071205