

Title (en)

Safety device for working on top of an elevator car

Title (de)

Schutzgerät, um auf einer Aufzugskabine zu arbeiten

Title (fr)

Dispositif de sécurité pour travailler sur une cage d'ascenseur

Publication

EP 1431228 A3 20041103 (EN)

Application

EP 04006916 A 20000209

Priority

- EP 04006916 A 20000209
- EP 00902881 A 20000209

Abstract (en)

[origin: EP1431228A2] A safety device for working on top of an elevator car, employed in an elevator in which a driving machine (21) for raising and lowering a car (5) is disposed at an upper portion of a hoistway (1) and a portion of the driving machine (21) is disposed in an area where the car (5) is projected in its raising and lowering direction, comprises: a light projecting device (51) provided on a side wall of the hoistway (1) for horizontally projecting a plurality of light beams (53) below the driving machine (21); a light receiving device (52) provided on a side wall of the hoistway (1) opposite to said light projecting device (51) for receiving the light beams (53) projected from said light projecting device (51); and a stop circuit (40) for stopping the raising of the car (5) when at least one of the light beams (53) is intercepted. <IMAGE>

IPC 1-7

B66B 5/00

IPC 8 full level

B66B 5/00 (2006.01)

CPC (source: EP)

B66B 5/005 (2013.01); **B66B 5/0081** (2013.01)

Citation (search report)

- [XY] JP H0246788 U 19900330
- [Y] EP 0926093 A1 19990630 - THYSSEN AUFZUEGE GMBH [DE]
- [Y] EP 0905081 A2 19990331 - TOSHIBA KK [JP]
- [A] US 5025895 A 19910625 - LEONE RICHARD J [US], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 09 30 September 1996 (1996-09-30)

Cited by

EP2080725A4; EP3424858A1; CN109205421A; US10983210B2; US11465880B2; EP3459893A1; CN109552957A; WO2021234119A1

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