Title (en)

ELEVATOR

Title (de)

AUFZUG

Title (fr)

ASCENSEUR

Publication

EP 1577247 A4 20101222 (EN)

Application

EP 02808321 A 20021224

Priority

JP 0213444 W 20021224

Abstract (en)

[origin: WO2004058619A1] A frame (30) disposed on top of an elevator shaft (1) is fixed with a hoist (13) having a drive sheave (14) arranged such that the rotary shaft is directed substantially in the vertical direction, a deflection pulley, e.g. a cage side deflector wheel (15), a control board (31), and a governor (32). An elevator cage (5) is provided, in the upper surface (8) thereof, with an opening (9) for maintenance. Machines such as the hoist (13) are disposed to overlap the cage (5), and the like, at least partially on the vertical projection surface of the elevator shaft (1), and the gap between the upper surface (8) and a machine, e.g. the hoist (13), under a state where the cage (5) is stopping at a specified maintenance position, is set to not smaller than a value (V<2>/2g) obtained by dividing the square of the rated speed of the cage (5) by twice the gravitational acceleration, and that gap is set as small as possible. A maintenance crew (20) rides on a working table (21) in the cage (5) and stretches a hand from the opening (9) in the upper surface (8) of the cage to perform maintenance of a machine, e.g. the hoist (13).

IPC 8 full level

B66B 5/00 (2006.01); **B66B 11/00** (2006.01)

CPC (source: EP KR)

B66B 5/00 (2013.01 - KR); **B66B 5/005** (2013.01 - EP); **B66B 5/02** (2013.01 - KR); **B66B 11/0246** (2013.01 - EP); **B66B 11/04** (2013.01 - KR)

Citation (search report)

- [Y] WO 0224566 A1 20020328 - MITSUBISHI ELECTRIC CORP [JP]
- [Y] US 6419052 B1 20020716 - MUELLER ROLF [JP], et al
- [Y] EP 0710618 A2 19960508 - KONE OY [FI] & EP 1327597 A1 20030716 - MITSUBISHI ELECTRIC CORP [JP]
- See references of WO 2004058619A1

Cited by

EP3406556A1; US11180344B2

Designated contracting state (EPC)

DE FR NL

DOCDB simple family (publication)

EP 1577247 A1 20050921; **EP 1577247 A4 20101222**; CN 1612837 A 20050504; JP WO2004058619 A1 20060427; KR 100633950 B1 20061013; KR 20040089665 A 20041021; WO 2004058619 A1 20040715

DOCDB simple family (application)

EP 02808321 A 20021224; CN 02826723 A 20021224; JP 0213444 W 20021224; JP 2004562843 A 20021224; KR 20047013134 A 20021224