

Title (en)
ELEVATOR CAR DOOR DEVICE

Title (de)
VORRICHTUNG FÜR EINE AUFZUGKABINENTÜR

Title (fr)
DISPOSITIF DE PORTE DE CABINE D'ASCENSEUR

Publication
EP 1396461 A4 20081008 (EN)

Application
EP 01936875 A 20010606

Priority
JP 0104780 W 20010606

Abstract (en)
[origin: EP1396461A1] In a car door apparatus for an elevator, a door motor is directly coupled to a drive pulley and the whole door motor is disposed below an upper end portion of a door frame. Further, a permanent magnet type motor is used as the door motor. Furthermore, the door frame is provided with a horizontal portion, with the door motor suspended under the horizontal portion. <IMAGE>

IPC 1-7
B66B 13/08

IPC 8 full level
B66B 13/08 (2006.01); **E05F 15/14** (2006.01)

CPC (source: EP KR)
B66B 13/02 (2013.01 - KR); **B66B 13/08** (2013.01 - EP); **E05F 15/643** (2015.01 - EP); **E05Y 2900/104** (2013.01 - EP)

Citation (search report)
• [XY] WO 0039017 A1 20000706 - OTIS ELEVATOR CO [US]
• [YA] US 5659160 A 19970819 - TRACEY MICHAEL J [US]
• [YA] US 5323876 A 19940628 - MCALLISTER EMORY C [US], et al
• See references of WO 02100753A1

Cited by
CN112832617A; US9731941B2; US8727076B2; US11530565B2

Designated contracting state (EPC)
DE

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EP 1396461 A1 20040310; **EP 1396461 A4 20081008**; **EP 1396461 B1 20100224**; CN 1226179 C 20051109; CN 1446174 A 20031001;
DE 60141419 D1 20100408; JP 2001187681 A 20010710; JP 4531899 B2 20100825; KR 20030020971 A 20030310; WO 02100753 A1 20021219

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EP 01936875 A 20010606; CN 01813826 A 20010606; DE 60141419 T 20010606; JP 0104780 W 20010606; JP 37383299 A 19991228;
KR 20037001665 A 20030205