

Title (en)
ELEVATOR DEVICE

Title (de)
AUFZUGSVORRICHTUNG

Title (fr)
APPAREIL ELEVATEUR

Publication
EP 1508544 A4 20080423 (EN)

Application
EP 02733257 A 20020530

Priority
JP 0205304 W 20020530

Abstract (en)
[origin: EP1508544A1] In an elevator apparatus, main ropes are wound around a drive sheave of a driving machine. A car is suspended by the main ropes and raised and lowered inside a hoistway by the driving machine. Traction capacity is ensured without using a counterweight by using as the main ropes resin-coated ropes in which an outer layer coating body composed of a high-friction resin material is disposed on an outer peripheral portion. <IMAGE>

IPC 8 full level
B66B 7/06 (2006.01); **B66B 9/00** (2006.01); **B66B 11/00** (2006.01)

CPC (source: EP KR)
B66B 7/06 (2013.01 - EP); **B66B 9/00** (2013.01 - EP); **B66B 11/007** (2013.01 - EP); **B66B 11/0095** (2013.01 - EP); **B66B 11/08** (2013.01 - KR); **D07B 1/165** (2013.01 - EP); **D07B 5/006** (2015.07 - EP); **D07B 1/162** (2013.01 - EP); **D07B 2201/1036** (2013.01 - EP); **D07B 2205/205** (2013.01 - EP); **D07B 2205/3025** (2013.01 - EP); **D07B 2501/2007** (2013.01 - EP)

Citation (search report)

- [XY] JP 2002145556 A 20020522 - MITSUBISHI ELECTRIC CORP
- [Y] WO 9943601 A2 19990902 - OTIS ELEVATOR CO [US]
- [Y] US 5117945 A 19920602 - HONDA TAKENOBU [JP]
- [E] EP 1327599 A1 20030716 - MITSUBISHI ELECTRIC CORP [JP]
- [Y] JP H11293574 A 19991026 - TOKYO SEIKO SENI ROPE KK
- [Y] GB 2090305 A 19820707 - SHINKO WIRE CO LTD
- [Y] JP H0921084 A 19970121 - YAMAMORI GIKEN KOGYO KK
- [A] EP 0672781 A1 19950920 - INVENTIO AG [CH]
- See references of WO 03101876A1

Cited by
EP1951439A4; US9546447B2

Designated contracting state (EPC)
DE

DOCDB simple family (publication)
EP 1508544 A1 20050223; **EP 1508544 A4 20080423**; CN 1264740 C 20060719; CN 1514799 A 20040721; JP WO2003101876 A1 20050929; KR 100636870 B1 20061019; KR 20040019067 A 20040304; WO 03101876 A1 20031211

DOCDB simple family (application)
EP 02733257 A 20020530; CN 02811486 A 20020530; JP 0205304 W 20020530; JP 2004509578 A 20020530; KR 20047000592 A 20020530