

Title (en)
ELEVATOR DEVICE

Title (de)
AUFZUGSVORRICHTUNG

Title (fr)
DISPOSITIF D'ASCENSEURS

Publication
EP 1329412 B1 20091209 (EN)

Application
EP 00964753 A 20001010

Priority
JP 0007026 W 20001010

Abstract (en)
[origin: EP1329412A1] In an elevator apparatus, an upper car and a lower car are raised and lowered in a common hoistway. An upper car driving machine and a lower car driving machine are disposed horizontally in an upper portion inside the hoistway such that rotating shafts of drive sheaves thereof extend vertically. The upper car, the lower car, and a counterweight are suspended inside the hoistway by a main rope body wound around the drive sheaves. <IMAGE>

IPC 8 full level
B66B 1/14 (2006.01); **B66B 1/24** (2006.01); **B66B 7/00** (2006.01); **B66B 7/06** (2006.01); **B66B 9/00** (2006.01); **B66B 11/00** (2006.01); **B66B 11/04** (2006.01)

CPC (source: EP)
B66B 9/00 (2013.01); **B66B 11/0095** (2013.01)

Cited by
EP1935827A1; EP2072445A1; DE102019206165A1; EP1700809A1; EP1905717A1; EP1795484A4; EP1935823A1; RU2495814C2; CN101896414A; RU2493091C2; EP1918238A1; EP1700811A1; US7661513B2; US7467691B2; US7779967B2; WO2009080476A1; WO2006097140A1; WO2009077397A1; WO2009080538A1; US7360629B2; US7857104B2; US7753174B2; US7762376B2; US7857103B2; EP1935826A1; US8651241B2; WO2006097138A1; WO2009080503A1; EP1935823B2; EP2227429B1

Designated contracting state (EPC)
CH DE FR LI NL

DOCDB simple family (publication)
EP 1329412 A1 20030723; EP 1329412 A4 20060614; EP 1329412 B1 20091209; CN 1226176 C 20051109; CN 1409687 A 20030409; DE 60043517 D1 20100121; JP 4786121 B2 20111005; JP WO2002030801 A1 20040219; WO 0230801 A1 20020418

DOCDB simple family (application)
EP 00964753 A 20001010; CN 00816962 A 20001010; DE 60043517 T 20001010; JP 0007026 W 20001010; JP 2002534195 A 20001010