

Title (en)  
Elevator apparatus

Title (de)  
Aufzug

Title (fr)  
Ascenseur

Publication  
**EP 1378478 B1 20060830 (EN)**

Application  
**EP 03022129 A 19991206**

Priority  
• EP 99957414 A 19991206  
• JP 9906807 W 19991206

Abstract (en)  
[origin: EP1151955A1] In an elevator apparatus having no machine room, a thin type traction machine is arranged at a height, from which a top and a pit section of an elevating path are excluded, on a projection face of a horizontal cross-section of the elevating path between a cage and an elevating path wall, and direction-change-pulleys are arranged at upper positions of the traction machine on a projection face of a horizontal cross-section of the elevating path being inclined with respect to the elevating path wall. <IMAGE>

IPC 8 full level  
**B66B 9/00** (2006.01); **B66B 11/00** (2006.01); **B66B 11/08** (2006.01)

CPC (source: EP KR)  
**B66B 11/00** (2013.01 - KR); **B66B 11/0045** (2013.01 - EP); **B66B 11/008** (2013.01 - EP)

Designated contracting state (EPC)  
DE FR NL

DOCDB simple family (publication)  
**EP 1151955 A1 20011107**; **EP 1151955 A4 20030521**; **EP 1151955 B1 20070627**; CN 1231411 C 20051214; CN 1285498 C 20061122; CN 1334779 A 20020206; CN 1515483 A 20040728; DE 69935620 D1 20070503; DE 69935620 T2 20071206; DE 69936399 D1 20070809; DE 69936399 T2 20080228; DE 69942377 D1 20100624; EP 1378478 A2 20040107; EP 1378478 A3 20040121; EP 1378478 B1 20060830; EP 1378479 A2 20040107; EP 1378479 A3 20040121; EP 1378479 B1 20070321; EP 1801062 A1 20070627; EP 1801062 B1 20100512; JP 3489578 B2 20040119; KR 100473094 B1 20050308; KR 20020006515 A 20020119; WO 0142121 A1 20010614

DOCDB simple family (application)  
**EP 99957414 A 19991206**; CN 03107790 A 19991206; CN 99815994 A 19991206; DE 69935620 T 19991206; DE 69936399 T 19991206; DE 69942377 T 19991206; EP 03022129 A 19991206; EP 03022130 A 19991206; EP 07006531 A 19991206; JP 2001543429 A 19991206; JP 9906807 W 19991206; KR 20017009715 A 20010801