

Title (en)
ELEVATOR

Title (de)
AUFZUG

Title (fr)
ELEVATEUR

Publication
EP 1447370 B1 20181017 (EN)

Application
EP 01274773 A 20011122

Priority
JP 0110229 W 20011122

Abstract (en)
[origin: EP1447370A1] A support member (10) for supporting a hoisting machine (9) disposed at a position close to the top within a hoistway (1) is supported at an upper end section of counterweight rails (6) which stand upright within the hoistway (1) and guide ascending and descending operation of a counterweight (8). In connection with such a construction, a coupling member (17) is provided between rail brackets (4)-which are spaced apart from each other in the vertical direction and fasten car rails (3) to fixing members (5) of the hoistway (1)-thereby coupling the counterweight rail (6) to the car rail (3). <?>As a result, the displacement developing in the counterweight rail (6) in the direction orthogonal to the axis is transmitted to and supported by the car rail (3) by means of the coupling member (17). Consequently, occurrence of buckling in the counterweight rail (6) is prevented, thereby making the strength of the counterweight rail (6) close to that required to carry out a function of guiding the counterweight (8). The counterweight rail (6) can be reduced in size to a rail of standard size, thereby curtailing costs for constructing the elevator system. <IMAGE>

IPC 8 full level
B66B 7/02 (2006.01); **B66B 11/00** (2006.01)

CPC (source: EP KR)
B66B 7/00 (2013.01 - KR); **B66B 7/02** (2013.01 - EP); **B66B 7/024** (2013.01 - EP); **B66B 11/008** (2013.01 - EP)

Cited by
EP1577251A4; US7383921B2

Designated contracting state (EPC)
DE

DOCDB simple family (publication)
EP 1447370 A1 20040818; **EP 1447370 A4 20100707**; **EP 1447370 B1 20181017**; CN 1250442 C 20060412; CN 1486272 A 20040331; JP 4056475 B2 20080305; JP WO2003043921 A1 20050310; KR 100514339 B1 20050913; KR 20040016836 A 20040225; WO 03043921 A1 20030530

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