

Title (en)
ELEVATOR APPARATUS

Title (de)
AUFZUGSVORRICHTUNG

Title (fr)
APPAREIL ÉLÉVATEUR

Publication
EP 1741657 A4 20091223 (EN)

Application
EP 04730713 A 20040430

Priority
JP 2004006335 W 20040430

Abstract (en)
[origin: EP1741657A1] In an elevator apparatus, a car and a counterweight are suspended within a hoistway according to a 2:1 roping method by means of a main rope. The main rope has a car-side end portion and a counterweight-side end portion connected to an upper portion of the hoistway. A car oscillation detector for detecting oscillation of the car-side end portion is provided in the upper portion of the hoistway. A mischief detecting portion detects mischief-related car oscillation according to a signal from the car oscillation detector.

IPC 8 full level
B66B 5/02 (2006.01); **B66B 5/00** (2006.01); **B66B 5/04** (2006.01); **B66B 7/08** (2006.01)

CPC (source: EP)
B66B 5/0012 (2013.01); **B66B 5/044** (2013.01); **B66B 7/08** (2013.01)

Citation (search report)

- [A] EP 1327597 A1 20030716 - MITSUBISHI ELECTRIC CORP [JP]
- See references of WO 2005105648A1

Cited by
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Designated contracting state (EPC)
DE FR NL

DOCDB simple family (publication)
EP 1741657 A1 20070110; **EP 1741657 A4 20091223**; **EP 1741657 B1 20110126**; CN 1780780 A 20060531; CN 1780780 B 20110907; DE 602004031265 D1 20110310; JP 4292204 B2 20090708; JP WO2005105648 A1 20070913; WO 2005105648 A1 20051110

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EP 04730713 A 20040430; CN 200480011652 A 20040430; DE 602004031265 T 20040430; JP 2004006335 W 20040430; JP 2006519144 A 20040430