

Title (en)  
ELEVATOR

Title (de)  
AUFZUG

Title (fr)  
ASCENSEUR

Publication  
**EP 1760030 A4 20100224 (EN)**

Application  
**EP 04746837 A 20040625**

Priority  
JP 2004009368 W 20040625

Abstract (en)  
[origin: EP1760030A1] In an elevator apparatus, a main rope suspending a car and a counterweight is wound around a drive sheave of a drive device. The car side and the counterweight side are in balance with each other when the value of a weight load in the car is smaller than 1/2 of the maximum loading weight of the car. The car is provided with a weighing device for measuring a value of the weight load in the car. A torque assist device is provided within a hoistway. An assist control device controls the torque assist device so as to impart auxiliary torque to the drive sheave when the value of the weight load in the car as determined based on information from the weighing device becomes larger than the predetermined value.

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

CPC (source: EP KR)  
**B66B 11/0484** (2013.01 - EP); **B66B 11/08** (2013.01 - KR)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2006001075A1

Designated contracting state (EPC)  
DE

DOCDB simple family (publication)  
**EP 1760030 A1 20070307; EP 1760030 A4 20100224; EP 1760030 B1 20111005**; CN 1832897 A 20060913; JP 4932478 B2 20120516; JP WO2006001075 A1 20080417; KR 100962816 B1 20100610; KR 20080031468 A 20080408; WO 2006001075 A1 20060105

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**EP 04746837 A 20040625**; CN 200480022842 A 20040625; JP 2004009368 W 20040625; JP 2006519209 A 20040625; KR 20087004596 A 20040625