

Title (en)  
ELEVATOR APPARATUS

Title (de)  
AUFZUGSVORRICHTUNG

Title (fr)  
MACHINERIE D'ASCENSEUR

Publication  
**EP 1862420 A4 20121107 (EN)**

Application  
**EP 05720031 A 20050304**

Priority  
JP 2005003759 W 20050304

Abstract (en)  
[origin: EP1862420A1] In an elevator apparatus, a drive device is disposed horizontally in an upper portion within a hoistway. The drive device has a drive device body, and a driving sheave rotated around a vertically extending rotational shaft by the drive device body. A car is provided with a car suspending pulley, and a counterweight is provided with a first counterweight rope connecting portion and a second counterweight rope connecting portion. A first car side return pulley and a second car side return pulley, and a first counterweight side return pulley and a second counterweight side return pulley are disposed in the upper portion within the hoistway. The car and the counterweight are suspended within the hoistway by a main rope having a first rope end and a second rope end, which are connected to the first counterweight rope connecting portion and the second counterweight rope connecting portion respectively. The main rope, which extends from the first rope end to the second rope end, is sequentially wound around the first counterweight side return pulley, the driving sheave, the first car side return pulley, the car suspending pulley, the second car side return pulley, and the second counterweight return pulley.

IPC 8 full level  
**B66B 7/06** (2006.01); **B66B 11/00** (2006.01); **B66B 11/08** (2006.01)

CPC (source: EP KR)  
**B66B 7/06** (2013.01 - KR); **B66B 11/0045** (2013.01 - EP); **B66B 11/008** (2013.01 - EP); **B66B 11/08** (2013.01 - KR)

Citation (search report)  
• [E] EP 1801061 A1 20070627 - MITSUBISHI ELECTRIC CORP [JP]  
• See references of WO 2006095390A1

Cited by  
CN102471023A

Designated contracting state (EPC)  
DE

DOCDB simple family (publication)  
**EP 1862420 A1 20071205; EP 1862420 A4 20121107; EP 1862420 B1 20140604**; CN 100542931 C 20090923; CN 1960934 A 20070509; JP 4750104 B2 20110817; JP WO2006095390 A1 20080814; KR 100875778 B1 20081226; KR 20070088542 A 20070829; WO 2006095390 A1 20060914

DOCDB simple family (application)  
**EP 05720031 A 20050304**; CN 200580017777 A 20050304; JP 2005003759 W 20050304; JP 2007506924 A 20050304; KR 20077007096 A 20070328