

Title (en)  
ELEVATOR DEVICE

Title (de)  
AUFZUGSVORRICHTUNG

Title (fr)  
DISPOSITIF D'ASCENSEUR

Publication  
**EP 2022744 A4 20130130 (EN)**

Application  
**EP 06756872 A 20060601**

Priority  
JP 2006310991 W 20060601

Abstract (en)  
[origin: EP2022744A1] In an upper portion of a hoistway, there is arranged a drive unit having a drive sheave which is driven to rotate around a rotation shaft disposed along a vertical direction. First and second main ropes serve to hang a common car, and hang a common counterweight. In the upper portion of the hoistway, there are arranged a first car side deflection wheel that guides the first main ropes to the car, a second car side deflection wheel that guides the second main ropes to the car, a first weight side deflection wheel that guides the first main ropes to the counterweight, and a second weight side deflection wheel that guides the second main ropes to the counterweight. Also, a horizontal defection wheel for deflecting the direction of the first main ropes is arranged at the upper portion of the hoistway. Portions of the first main ropes between the drive sheave and the first weight side deflection wheel are wrapped around the horizontal defection wheel. The first and second main ropes are respectively wrapped around the drive sheave in such a manner that at least a part of a force received by the rotation shaft of the drive sheave from the first main ropes and at least a part of a force received by the rotation shaft of the drive sheave from the second main ropes are counteracted with each other.

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

CPC (source: EP KR)  
**B66B 7/00** (2013.01 - 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)

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- [Y] US 2005217945 A1 20051006 - KIMURA YASUKI [JP], et al
- [Y] WO 2006038256 A1 20060413 - MITSUBISHI ELECTRIC CORP [JP], et al & EP 1801061 A1 20070627 - MITSUBISHI ELECTRIC CORP [JP] & EP 1795484 A1 20070613 - MITSUBISHI ELECTRIC CORP [JP]
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Designated contracting state (EPC)  
DE

DOCDB simple family (publication)  
**EP 2022744 A1 20090211**; **EP 2022744 A4 20130130**; CN 101356112 A 20090128; JP 5031558 B2 20120919; JP WO2007138707 A1 20091001; KR 101011280 B1 20110128; KR 20080095841 A 20081029; WO 2007138707 A1 20071206

DOCDB simple family (application)  
**EP 06756872 A 20060601**; CN 200680050487 A 20060601; JP 2006310991 W 20060601; JP 2007515719 A 20060601; KR 20087014163 A 20060601