

Title (en)  
ELEVATOR DEVICE

Title (de)  
AUFZUGSVORRICHTUNG

Title (fr)  
DISPOSITIF D'ASCENSEUR

Publication  
**EP 1918239 B1 20160921 (EN)**

Application  
**EP 05780959 A 20050825**

Priority  
JP 2005015434 W 20050825

Abstract (en)  
[origin: EP1918239A1] Provided is an elevator apparatus in which a car is raised and lowered by driving forces of a plurality of driving machines. The driving machines have driving sheaves, motors for rotating the driving sheaves, and brake devices for braking the rotation of the driving sheaves. Each brake device has a plurality of brake main bodies belonging to a plurality of different groups. At the time of emergency braking, the brake devices generate braking forces by means of the brake main bodies with timings differing from group to group.

IPC 8 full level  
**B66B 1/32** (2006.01); **B66B 7/06** (2006.01); **B66B 7/10** (2006.01); **B66B 9/00** (2006.01)

CPC (source: EP)  
**B66B 1/32** (2013.01); **B66B 7/10** (2013.01); **B66B 9/00** (2013.01)

Cited by  
EP2670695A4; WO2012105986A1; EP3112305A1; EP3112304A1; EP3112303A1; US10479645B2; US10442659B2; US10450162B2

Designated contracting state (EPC)  
DE

DOCDB simple family (publication)  
**EP 1918239 A1 20080507; EP 1918239 A4 20130102; EP 1918239 B1 20160921**; CN 101044081 A 20070926; CN 101044081 B 20110105; JP 5026073 B2 20120912; JP WO2007023550 A1 20090226; WO 2007023550 A1 20070301

DOCDB simple family (application)  
**EP 05780959 A 20050825**; CN 200580035676 A 20050825; JP 2005015434 W 20050825; JP 2006520606 A 20050825