

Title (en)  
COUNTERWEIGHT

Title (de)  
GEGENGEWICHT

Title (fr)  
CONTREPOIDS

Publication  
**EP 1512656 A4 20081112 (EN)**

Application  
**EP 02738691 A 20020613**

Priority  
JP 0205905 W 20020613

Abstract (en)  
[origin: EP1512656A1] In a counterweight (10) which rises and lowers in balance with a car rising and lowering in an elevator system (100), the counterweight (10) has an upper counterweight (30) and a lower counterweight (32), and the upper counterweight (30) and the lower counterweight (32) can be separated from each other. Also, when the counterweight (10) is separated, the upper counterweight (30) has an upper brake device (36) for stopping the upper counterweight (30), and the lower counterweight (32) has a lower brake device (38) for stopping the lower counterweight (32). <IMAGE>

IPC 1-7  
**B66B 11/00**; B66B 5/02

IPC 8 full level  
**B66B 5/02** (2006.01); **B66B 11/00** (2006.01); **B66B 17/12** (2006.01)

CPC (source: EP KR)  
**B66B 11/00** (2013.01 - KR); **B66B 17/12** (2013.01 - EP)

Citation (search report)

- [X] WO 0234658 A1 20020502 - TOSHIBA KK [JP], et al
- [X] US 1073700 A 19130923 - NEENAN MICHAEL E [US] & EP 1332999 A1 20030806 - TOSHIBA KK [JP]
- See references of WO 03106321A1

Cited by  
US2013248299A1; WO2011032582A1; WO2010081935A1

Designated contracting state (EPC)  
DE

DOCDB simple family (publication)  
**EP 1512656 A1 20050309**; **EP 1512656 A4 20081112**; **EP 1512656 B1 20100317**; CN 1285500 C 20061122; CN 1549789 A 20041124; DE 60235727 D1 20100429; JP WO2003106321 A1 20051013; KR 100569799 B1 20060410; KR 20040021694 A 20040310; WO 03106321 A1 20031224

DOCDB simple family (application)  
**EP 02738691 A 20020613**; CN 02817146 A 20020613; DE 60235727 T 20020613; JP 0205905 W 20020613; JP 2004513160 A 20020613; KR 20047001986 A 20020613