

Title (en)
ELEVATOR EMERGENCY STOP DEVICE

Title (de)
AUFZUG-NOT-STOPP-VORRICHTUNG

Title (fr)
DISPOSITIF D'ARRET D'URGENCE POUR ASCENSEUR

Publication
EP 1826168 B1 20130417 (EN)

Application
EP 04807079 A 20041215

Priority
JP 2004018720 W 20041215

Abstract (en)
[origin: EP1826168A1] An object of the present invention is to obtain an elevator safety device that does not make passengers feel uncomfortable and nor causes damage to ascending/descending body and counterweight by reducing deceleration during braking operation with a simple structure and without a complicated control. To realize this object, the elevator safety device comprises an ascending/descending body that travels up and down along guide rails and has a passenger car for accommodating passengers therein and frame members for supporting the passenger car; a wedge that is provided on the ascending/descending body and shifts in an emergency upward relative to the ascending/descending body along the guide rail; a pressing member for pressing by using an elastic member the wedge onto the guide rail; a pressing-force-adjusting means for setting pressing force to be smaller when the ascending/descending body load mass, which fluctuates with passengers getting on and off, becomes larger, and to be larger when the load mass becomes smaller.

IPC 8 full level
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CPC (source: EP)
B66B 5/04 (2013.01); **B66B 5/18** (2013.01); **B66B 5/22** (2013.01)

Cited by
US2012175194A1; EP2487128B1

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DE

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EP 1826168 A1 20070829; EP 1826168 A4 20120215; EP 1826168 B1 20130417; CN 1960931 A 20070509; CN 1960931 B 20110420; EP 2517998 A1 20121031; EP 2517998 B1 20140402; JP 4710834 B2 20110629; JP WO2006064555 A1 20080612; WO 2006064555 A1 20060622

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EP 04807079 A 20041215; CN 200480043217 A 20041215; EP 12177599 A 20041215; JP 2004018720 W 20041215; JP 2006548609 A 20041215