

Title (en)

Anti-crash safety catch for doors or the like independent of the centrifugal force.

Title (de)

Fliehkraftunabhängige Absturzsicherung für Tore od.dgl.

Title (fr)

Sécurité antichute indépendante de la force centripète pour portails ou similaires.

Publication

EP 0216078 A1 19870401 (DE)

Application

EP 86110479 A 19860729

Priority

DE 3532754 A 19850913

Abstract (en)

[origin: US4697676A] A safety device for garage doors wherein the door can be pulled down against the opposition of one or more torsion springs acting upon a horizontal shaft has a housing for a gear which is non-rotatably mounted on the shaft and whose peripheral teeth and tooth spaces are adjacent a set of recesses the the housing. A plastic casing which is biased by the torsion springs normally maintains in deformed condition at least one coil spring which reacts against the housing and tends to rotate the casing relative to the gear so that several ramps which are adjacent to discrete pockets of the casing expel from the recesses spherical blocking elements which normally extend partly into the recesses and partly into the adjacent pockets. This results in partial entry of blocking elements into the adjacent tooth spaces to thus hold the shaft against rotation relative to the housing in the event of breakage of the torsion springs.

Abstract (de)

Die Erfindung bezieht sich auf eine fliehkraftunabhängige Absturzsicherung, bei welcher die mit einem Sperrad (5) und Anschlägen in einem ortsfesten Gehäuse (2) zusammenwirkenden Sperrkörper (11) durch die Bewegung eines Gegengehäuses (6) aus einer Ruhestellung in die Sperrstellung gehoben werden, wobei in der normalen Arbeitsstellung die Sperrkörper (11) in ihren Ausnehmungen (12) in Ruhe stehen.

IPC 1-7

E05D 13/00; **E06B 9/209**

IPC 8 full level

E05C 17/62 (2006.01); **E05D 13/00** (2006.01); **E06B 9/84** (2006.01)

CPC (source: EP US)

E05D 13/1269 (2013.01 - EP US); **E06B 9/84** (2013.01 - EP US); **E05D 13/003** (2013.01 - EP US); **E05D 13/1261** (2013.01 - EP US); **E05Y 2900/00** (2013.01 - EP US); **E05Y 2900/106** (2013.01 - EP US)

Citation (search report)

- [AD] DE 3300331 C1 19840510 - HAAKE WERNER
- [A] DE 2902715 B1 19800410 - HAAKE WERNER
- [AP] DE 3435461 C1 19860130 - HAAKE ANDRE

Cited by

DE4317779C1; EP0628689A3

Designated contracting state (EPC)

AT BE FR GB IT NL SE

DOCDB simple family (publication)

US 4697676 A 19871006; AT E42373 T1 19890515; CA 1267354 A 19900403; DE 3532754 C1 19861113; EP 0216078 A1 19870401; EP 0216078 B1 19890419

DOCDB simple family (application)

US 90567786 A 19860909; AT 86110479 T 19860729; CA 516514 A 19860821; DE 3532754 A 19850913; EP 86110479 A 19860729