

Title (en)
A catch apparatus for a rack lift.

Title (de)
Sperrvorrichtung für einen Zahnradaufzug.

Title (fr)
Appareil d'arrêt pour un ascenseur à crémaillère.

Publication
EP 0338613 A2 19891025 (EN)

Application
EP 89200894 A 19890410

Priority
SE 8801506 A 19880422

Abstract (en)
Catch apparatus for a rack lift, with a tooth wheel (2) engaging the rack and unrotatably mounted on the shaft (4), which also carries two friction members (16,18), which are spring tensioned (28) towards each other for mutual friction engagement, and of which one (16) is unrotatably carried by the shaft (4), and the other one (18) is glidingly supported (20) on the shaft but normally co-rotating through the frictional engagement, an inertia blocking mechanism (38,74) being arranged to stop the other friction member (18) at exceeding of a limit velocity of the shaft (4), for braking the shaft through the frictional engagement. The blocking mechanism includes a blocking member (54) which is suspended (44,46) for pendulum movement in a plane extending transversely to the shaft (4) in order to be clamped, when the limit velocity is exceeded, between a fixed abutment (74) and an abutment (42) carried by the other friction member (18).

IPC 1-7
B66B 5/04; B66B 5/18

IPC 8 full level
B66B 5/18 (2006.01)

CPC (source: EP)
B66B 5/18 (2013.01)

Cited by
EP0385180A3

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
EP 0338613 A2 19891025; EP 0338613 A3 19900725; EP 0338613 B1 19930901; AU 3326489 A 19891026; AU 609600 B2 19910502; DE 68908758 D1 19931007; DE 68908758 T2 19940324; DK 193889 A 19891023; DK 193889 D0 19890420; FI 891925 A0 19890421; FI 891925 A 19891023; FI 90755 B 19931215; FI 90755 C 19940325; NO 172227 B 19930315; NO 172227 C 19930623; NO 891649 D0 19890421; NO 891649 L 19891023; SE 468089 B 19921102; SE 8801506 D0 19880422; SE 8801506 L 19891023

DOCDB simple family (application)
EP 89200894 A 19890410; AU 3326489 A 19890421; DE 68908758 T 19890410; DK 193889 A 19890420; FI 891925 A 19890421; NO 891649 A 19890421; SE 8801506 A 19880422