

Title (en)
SPRING MONITORING DEVICE

Publication
EP 0151427 B1 19891213 (DE)

Application
EP 85100621 A 19850122

Priority
• DE 3402343 A 19840124
• DE 3425909 A 19840713

Abstract (en)
[origin: EP0151427A2] 1. Spring control device for a pretensioned torsion spring of a gate, a door or the like, in particular as a weight-balancing spring for a one- or multi-part overhead movable door leaf or an armoured roller door, to prevent the door leaf from falling down in the event of a breakage of the spring, in which, for at least one of the two end regions (11) of the spring (3), a tension sensor (13) is provided, said tension sensor being biased by said spring in one direction in the biased condition of the spring, and in the opposite direction in the event of a breakage of the spring, solely by the reaction force of the spring, to release a locking device for the door leaf (7, 9).

IPC 1-7
E05D 13/00

IPC 8 full level
E05D 13/00 (2006.01); **E05F 1/10** (2006.01); **E05F 3/06** (2006.01); **E05F 3/08** (2006.01); **E05F 5/00** (2006.01); **E05F 15/00** (2006.01)

IPC 8 main group level
E05F (2006.01)

CPC (source: EP)
E05D 13/1269 (2013.01); **E05D 13/003** (2013.01); **E05D 13/1261** (2013.01); **E05Y 2900/106** (2013.01)

Cited by
WO0006861A1; EP4001563A1; US5743046A; DE19861233B4; USRE40001E; BE1028812B1; US2015059989A1; CN114508272A; EP1760251A3; EP2669456A1; US6986378B2; CN102806919A; DE19855697C2; US8793933B2; US11767696B2; DE202009001535U1; WO8801002A1; US7254868B2; WO2006071632A3

Designated contracting state (EPC)
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