

Title (en)

Load control device

Title (de)

Lastverstellvorrichtung

Title (fr)

Dispositif de commande de charge

Publication

EP 0989293 A3 20001108 (DE)

Application

EP 99118628 A 19990921

Priority

DE 19843769 A 19980924

Abstract (en)

[origin: EP0989293A2] The emergency running spring (13) and return spring (14) are designed as torsion coil springs, in coaxial arrangement at the opposite end of the butterfly shaft to the motor (7).

IPC 1-7

F02D 11/10

IPC 8 full level

F02D 11/10 (2006.01); **F02M 7/23** (2006.01)

CPC (source: EP KR)

F02D 11/107 (2013.01 - EP KR)

Citation (search report)

- [XY] US 5735243 A 19980407 - ASAI TOSHIMICHI [JP], et al
- [AY] EP 0651147 A1 19950503 - PIERBURG GMBH [DE]
- [A] US 5778853 A 19980714 - SAITO KATSUMI [JP]
- [A] DE 4207096 A1 19930909 - PIERBURG GMBH [DE]
- [A] EP 0641922 A2 19950308 - PIERBURG GMBH [DE]

Cited by

US7185629B2; US7284535B2; US7458360B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0989293 A2 20000329; EP 0989293 A3 20001108; EP 0989293 B1 20040721; BR 9904314 A 20000926; DE 19843769 A1 20000330; DE 59909996 D1 20040826; KR 20000023458 A 20000425

DOCDB simple family (application)

EP 99118628 A 19990921; BR 9904314 A 19990924; DE 19843769 A 19980924; DE 59909996 T 19990921; KR 19990041280 A 19990927