

Title (en)
AUTOMATIC DOOR CLOSER

Publication
EP 0137861 B1 19870325 (DE)

Application
EP 83110196 A 19831013

Priority
EP 83110196 A 19831013

Abstract (en)
[origin: EP0137861A1] 1. An automatic door closer including a closer shaft (12) biased by a spring arrangement (34) in a closing sense, and which guides the movable piston (14) of a hydraulic piston-cylinder unit serving for damping purposes, whose high-pressure chamber (20) is connected with the low-pressure chamber on the one hand via a return flow passage having a restrictor and on the other hand via a check valve (18) opening towards the high-pressure chamber (20), characterized in that the piston (14) and the spring arrangement (34) have connected therebetween a self-moving support member (33) adapted to be driven by external energy in the sense of a spring bias as controlled in dependence on the door actuation.

IPC 1-7
E05F 3/10; **E05F 3/22**

IPC 8 full level
E05F 3/10 (2006.01); **E05F 3/22** (2006.01); **E05F 15/04** (2006.01); **E05F 15/12** (2006.01)

CPC (source: EP)
E05F 3/102 (2013.01); **E05F 3/12** (2013.01); **E05F 3/224** (2013.01); **E05F 15/63** (2015.01); **E05F 15/53** (2015.01); **E05F 15/622** (2013.01); **E05Y 2201/41** (2013.01); **E05Y 2400/3015** (2024.05); **E05Y 2900/132** (2013.01)

Cited by
CN102704779A; CN109610966A; EP1437551A1; DE102004059843C5; DE102011001203A1; EP4279691A1; GB2298460A; GB2298460B; DE202012002922U1; WO2005026486A1; US9995076B1; WO9608657A1; WO2007137670A1; WO9716617A1; EP1340877B1

Designated contracting state (EPC)
FR GB IT NL SE

DOCDB simple family (publication)
EP 0137861 A1 19850424; **EP 0137861 B1 19870325**

DOCDB simple family (application)
EP 83110196 A 19831013