Title (en)

DOOR CLOSER WITH A HYDRAULIC STOP DEVICE

Publication

EP 0328933 B1 19930623 (DE)

Application

EP 89101666 A 19890201

Priority

DE 8801895 U 19880213

Abstract (en)

[origin: EP0328933A1] Firedoors must close automatically when fire breaks out in a room which can be closed by them. Fire is normally accompanied by smoke which is detected by a smoke alarm. To make it possible to close automatically an open door equipped with a door closer of the type in question, an overflow valve (34) located in the flow path (37) of the hydraulic medium is released by an electromagnet (65) in the event of a smoke alarm. In the absence of smoke, the electromagnet presses a blocking member (66) against the closing member (56) located in the closed position. The flow path, applicable to the wide-open door, of the hydraulic medium from a rear cylinder space (7) to the front cylinder space (6) is consequently blocked after opening for the first time. However, the door can nevertheless be opened and closed in the same way as a normal door, without spring force having to be overcome, because the piston rod of the door closer can be pushed together telescopically. It has a portion (71) located on the piston side and a portion (75) located on the drive side. A head (77) or extension, engaging behind a restriction (72), of the portion (75) located on the drive side makes a positive connection which, when the door is opened wide for the first time, for example over approximately 80 DEG to 90 DEG , takes up the portion (71) located on the piston side into its hydraulic locking position. <IMAGE>

IPC 1-7

E05F 3/10; E05F 3/22

IPC 8 full level

E05F 3/10 (2006.01); **E05F 3/22** (2006.01)

CPC (source: EP)

E05F 3/12 (2013.01); **E05F 3/223** (2013.01); E05Y 2900/132 (2013.01)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 8801895 U1 19880324; DE 58904758 D1 19930729; EP 0328933 A1 19890823; EP 0328933 B1 19930623

DOCDB simple family (application)

DE 8801895 U 19880213; DE 58904758 T 19890201; EP 89101666 A 19890201