

Title (en)  
DOOR-CLOSER

Publication  
**EP 0285775 B1 19910515 (DE)**

Application  
**EP 88102261 A 19880217**

Priority  
DE 8704569 U 19870327

Abstract (en)  
[origin: EP0285775A1] Door closers with a hydraulic locking of the door are equipped with various throttle valves, one of which is closed for the purpose of the hydraulic locking. This prevents the return flow of the medium from the rear cylinder space (7) into the front cylinder space (6) via this throttle valve. Now if there is inserted into a longitudinal housing channel (16) between the first throttle valve (12) and the second throttle valve (18), closable for the purpose of the hydraulic locking of the door, an adjustable control valve (15), the flow-off channels (66 to 70) of which are so arranged that, during the closing of the door, the piston or its piston ring (28) runs over their outer mouths (71) in the cylinder (2) after the transverse bore (19) of the second throttle valve (18), and moreover they are arranged offset in the direction of displacement of the piston (1), then by an appropriate setting of the control valve (65) one of the flow-off channels (66 to 70) can be selected. This is then assigned an exactly fixed piston position which is also associated with a specific swivel opening position of the door. Up to this "selected" angle, the door can be opened, even with the second throttle valve (18) closed, without remaining blocked hydraulically. If the set or selected swivel angle of the door is exceeded, the hydraulic block comes into force. But the door can nevertheless be closed from the hydraulically blocked closing position, by being appropriately pushed to, via at least one fourth throttle valve (23) and preferably also a third throttle valve (22) with corresponding return channels. As soon as the set opening angle is reached, further closing takes place automatically. <IMAGE>

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

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

CPC (source: EP)  
**E05F 3/12** (2013.01); **E05F 3/223** (2013.01); **E05Y 2201/20** (2013.01); **E05Y 2201/21** (2013.01); **E05Y 2201/254** (2013.01); **E05Y 2201/256** (2013.01); **E05Y 2201/264** (2013.01); **E05Y 2900/132** (2013.01)

Citation (examination)  
DE 8526660 U1 19870122

Cited by  
CN109267865A; GB2580013A; GB2580013B

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**DE 8704569 U1 19870716**; DE 3862792 D1 19910620; EP 0285775 A1 19881012; EP 0285775 B1 19910515

DOCDB simple family (application)  
**DE 8704569 U 19870327**; DE 3862792 T 19880217; EP 88102261 A 19880217