

Title (en)

DOOR CLOSER FOR GENERATING A SPEED-INCREASING LEAP DURING THE CLOSURE PHASE

Title (de)

TÜRSCHLIESSER ZUR ERZEUGUNG EINES ÜBERSETZUNGSSPRUNGES WÄHREND DER SCHLIESSPHASE

Title (fr)

FERME-PORTE POUR GENERER UN SAUT MULTIPLICATEUR DE LA VITESSE DE FERMETURE

Publication

EP 0956415 B1 20030326 (DE)

Application

EP 97931725 A 19970709

Priority

DE 9701449 W 19970709

Abstract (en)

[origin: WO9902810A1] The invention relates to a door closer comprising a shoulder(110)-type piston (100) acting upon a driven shaft, a pressure build-up piston (200) and an energy accumulator (30), the pistons (100, 200) being axially guided inside a housing (1). The door closer is also fitted with a first (D1) and a second (D2) pressure chambers connected to an overflow hose and combined with the door piston (100), with a middle pressure chamber (D3) combined with both the shoulder (110) and the pressure build-up piston (200), and at least with one additional pressure chamber (D4, D4*) possibly presenting a choke, while the pistons, or the housing, all have channels for interconnecting the pressure chambers, and while the door piston (100), which is not only interlocking with the door piston due to the offset shoulder (110) in the hand of door (4), but also operatively linked with it- first hydraulically, then mechanically - in the direction of closure, leaves the possibility of hydraulic decoupling from the pressure build-up piston.

IPC 1-7

E05F 3/10; **E05F 3/12**

IPC 8 full level

E05F 3/10 (2006.01); **E05F 3/12** (2006.01)

CPC (source: EP)

E05F 3/10 (2013.01); **E05F 3/12** (2013.01); **E05F 3/102** (2013.01); **E05Y 2201/499** (2024.05); **E05Y 2900/132** (2013.01)

Cited by

US9995076B1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL

DOCDB simple family (publication)

WO 9902810 A1 19990121; AT E235639 T1 20030415; DE 59709648 D1 20030430; EP 0956415 A1 19991117; EP 0956415 B1 20030326

DOCDB simple family (application)

DE 9701449 W 19970709; AT 97931725 T 19970709; DE 59709648 T 19970709; EP 97931725 A 19970709