

Title (en)
Door closer

Title (de)
Türschließer

Title (fr)
Ferre-porte

Publication
EP 2381057 A3 20130501 (DE)

Application
EP 11002280 A 20110321

Priority
DE 102010017893 A 20100421

Abstract (en)
[origin: EP2381057A2] The door closer (1) has a drive shaft connected with a door leaf, and a lifting arc disk arranged on the shaft. A plate carriage (4) has a force transmission roller (7) that is arranged at a side of the disk. A piston rod (8) is connected with the plate carriage by a horizontal connection screw (10), and a closer spring (9) and/or a drive are provided for transmitting force to the piston rod. A piston is arranged at the piston rod. The connection screw is connected with the plate carriage and screwed into the piston rod along a longitudinal axis (24) of the piston rod.

IPC 8 full level
E05F 3/10 (2006.01)

CPC (source: EP)
E05F 3/104 (2013.01); **E05F 15/63** (2015.01)

Citation (search report)

- [Y] WO 2006066665 A1 20060629 - DORMA GMBH & CO KG [DE], et al
- [Y] US 2003070255 A1 20030417 - HUANG JACK [TW]
- [A] DE 8707410 U1 19870709
- [A] US 2005177975 A1 20050818 - WANG YU-JEN [TW]

Cited by
CN103899175A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2381057 A2 20111026; EP 2381057 A3 20130501; CN 102235132 A 20111109; DE 102010017893 A1 20111027; TW 201144561 A 20111216

DOCDB simple family (application)
EP 11002280 A 20110321; CN 201110102912 A 20110419; DE 102010017893 A 20100421; TW 100111735 A 20110406