

Title (en)
DOOR CLOSER AND DOOR ASSEMBLY

Title (de)
TÜRSCHLIESSER UND TÜRANORDNUNG

Title (fr)
FERME-PORTE ET ENSEMBLE DE PORTE

Publication
EP 3712366 A1 20200923 (EN)

Application
EP 19163906 A 20190319

Priority
EP 19163906 A 20190319

Abstract (en)
The invention is related to a door closer (10) comprising a first housing (11), a second housing (12), a transmission element (13), a first piston (15) and a second piston (16) solidly attached by a rod (17). The first piston (15) is arranged in the first housing (11) to receive the linear movement of the transmission element (13) and the second piston (16) is arranged in the second housing (12). A resilient element (18) is arranged to provide a return force against the first piston (15). The second housing (12) comprises at least a first valve (1) and a second valve (2), both valves being located in the first half (23), the second valve (2) being located closer to the first end (21) than the first valve (1). The first valve (1) is configured to allow only fluid outlet from the stroke zone (20) to the exterior of the second piston (16) and the second valve (2) is configured to allow only fluid inlet inside the stroke zone (20) from the exterior of the second piston (16). The invention also provides a door assembly (100) comprising such a door closer (10).

IPC 8 full level
E05F 3/02 (2006.01); **E05F 3/10** (2006.01); **E05F 3/12** (2006.01)

CPC (source: EP)
E05F 3/02 (2013.01); **E05F 3/10** (2013.01); **E05F 3/12** (2013.01); **E05F 3/102** (2013.01); **E05F 3/104** (2013.01); **E05Y 2201/20** (2013.01); **E05Y 2201/234** (2013.01)

Citation (search report)

- [IA] GB 897848 A 19620530 - VERRERIES APPLIQUEES
- [YA] JP S565768 U 19810119
- [YA] WO 2008124816 A1 20081016 - WABTEC HOLDING CORP [US], et al
- [A] US 2017247922 A1 20170831 - WANG FAN SHUI [CN]

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 3712366 A1 20200923

DOCDB simple family (application)
EP 19163906 A 20190319