

Title (en)
CYLINDER ASSEMBLY HAVING AN ADJUSTABLE STOP

Title (de)
ZYLINDERANORDNUNG MIT EINSTELLBAREM ANSCHLAG

Title (fr)
ENSEMBLE CYLINDRE MUNI D'UNE BUTÉE RÉGLABLE

Publication
EP 3218612 A1 20170920 (DE)

Application
EP 15790103 A 20151102

Priority
• DE 102014116328 A 20141110
• EP 2015075435 W 20151102

Abstract (en)
[origin: WO2016074963A1] The invention relates to a cylinder assembly, comprising a cylinder (1), which has a cylinder housing (2) and a retractable and extendable piston rod (3) that protrudes from the cylinder housing, and a spacing-plate assembly (5), which has spacing plates (6) that can be brought into a storage position and into a stop position, wherein, in the stop position, the spacing plates form a mechanical stop and limit the retraction of the piston rod in relation to the cylinder housing in order to define a stop position for the piston rod, wherein the stop position depends on the number of spacing plates brought into the stop position, wherein the spacing plates have a shape matched to the piston rod and are arranged at least partially surrounding the piston rod in the stop position, wherein the stop is formed between the cylinder housing and the stop element, which is connected to the piston rod, and the associated spacing-plate assembly. In order to ensure in a simple manner that, when the spacing plates are in the stop position, the spacing plates do not damage the piston rod, the spacing-plate assembly, according to the invention, has an accommodating device (7) for accommodating the spacing plates in the stop position of the spacing plates and, when the spacing plates are arranged in the stop position of the spacing plates in the accommodating device, the spacing plates have a radial distance from the piston rod.

IPC 8 full level
F15B 15/24 (2006.01)

CPC (source: EA EP)
F15B 15/24 (2013.01 - EA EP)

Citation (search report)
See references of WO 2016074963A1

Cited by
EP4215428A1; CN108825566A

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)
DE 102014116328 A1 20160512; EA 034338 B1 20200129; EA 201790126 A1 20170929; EP 3218612 A1 20170920; EP 3218612 B1 20190710; ES 2748455 T3 20200316; PL 3218612 T3 20191231; UA 118308 C2 20181226; WO 2016074963 A1 20160519

DOCDB simple family (application)
DE 102014116328 A 20141110; EA 201790126 A 20151102; EP 15790103 A 20151102; EP 2015075435 W 20151102; ES 15790103 T 20151102; PL 15790103 T 20151102; UA A201705305 A 20151102