

Title (en)
PISTON AND A POSITIONER FITTED WITH THE PISTON

Title (de)
KOLBEN UND DAMIT AUSGESTATTETE STELLVORRICHTUNG

Title (fr)
PISTON ET UN POSITIONNEUR EQUIPÉ AVEC LE PISTON

Publication
EP 3164610 B1 20171018 (DE)

Application
EP 14796715 A 20141112

Priority
EP 2014003034 W 20141112

Abstract (en)
[origin: WO2016074691A1] The invention relates to a piston (4) for a positioning device that can be operated by means of fluid, which piston has a one-piece piston body (16), in which an annular accommodating groove (25) is formed, which is coaxial to the longitudinal axis (5) of the piston (4) and which has two lateral groove flanks (33a, 33b) that face each other. A permanent magnet assembly (24) is arranged in the accommodating groove (25). The permanent magnet assembly consists of an elastic permanently magnetic magnet strip (35), which is bent into a ring structure and which has two strip end segments (35a, 35b) that face each other. The magnet strip (35) has a smaller width than the accommodating groove (25), wherein each of the two strip end segments (35a, 35b) of the magnet strip is firmly clamped in the accommodating groove (25). At least one clamping protrusion (46a, 47a; 46b, 47b) protruding from one of the groove flanks (33a, 33b) is responsible for the clamping.

IPC 8 full level
F15B 15/28 (2006.01)

CPC (source: CN EP KR)
F15B 15/1447 (2013.01 - KR); **F15B 15/2807** (2013.01 - CN EP KR); **F15B 15/2861** (2013.01 - CN EP KR); **F15B 15/2892** (2013.01 - CN EP KR); **F15B 2211/7051** (2013.01 - KR)

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

DOCDB simple family (publication)
WO 2016074691 A1 20160519; CN 107076179 A 20170818; CN 107076179 B 20181130; EP 3164610 A1 20170510; EP 3164610 B1 20171018; KR 20170082500 A 20170714

DOCDB simple family (application)
EP 2014003034 W 20141112; CN 201480082353 A 20141112; EP 14796715 A 20141112; KR 20177007446 A 20141112