

Title (en)
Rodless linear fluid actuator

Title (de)
Fluidbetätigter kolbenstangenloser Linearantrieb

Title (fr)
Actionneur linéaire à fluide sans tige

Publication
EP 0771953 A3 19990811 (DE)

Application
EP 96111727 A 19960720

Priority
DE 19540502 A 19951031

Abstract (en)
[origin: EP0771953A2] The linear drive has a housing (2) with an elongated running chamber (6) for a piston (13), which can be moved longitudinally (7) by a fluid. A driven component (16) is arranged outside the piston in a circumferential region of the chamber, and can be braked and/or fixed relative to the housing by equipment (34) which has a threaded spindle (35). The spindle is arranged parallel to and outside the chamber, and extends at least along the maximum possible stroke path of the component, with a rotary mounting on the housing on each axial side of this path. The spindle engages with an internal thread (42) on the component which is rotated due to its reciprocating motion. A brake unit (44) is arranged in an end region of the housing, and works together with a brake part (46) which is fixed to the spindle outside the path, in order to influence the rotary motion of the spindle.

IPC 1-7
F15B 15/08

IPC 8 full level
F15B 15/06 (2006.01); **F15B 15/08** (2006.01); **F15B 15/26** (2006.01)

CPC (source: EP)
F15B 15/061 (2013.01); **F15B 15/082** (2013.01); **F15B 15/264** (2013.01); **F15B 15/265** (2013.01)

Citation (search report)

- [A] EP 0602417 A1 19940622 - BOSCH GMBH ROBERT [DE]
- [A] EP 0136435 A1 19850410 - BOSCH GMBH ROBERT [DE]
- [DA] EP 0370157 A1 19900530 - GRANBOM BO
- [A] EP 0554727 A1 19930811 - SMC CORP [JP]

Cited by
CN106194895A

Designated contracting state (EPC)
AT CH DE ES FR IT LI

DOCDB simple family (publication)
EP 0771953 A2 19970507; EP 0771953 A3 19990811; DE 19540502 A1 19970507

DOCDB simple family (application)
EP 96111727 A 19960720; DE 19540502 A 19951031