Title (en)

Working cylinder without piston rod.

Title (de)

Kolbenstangenloser Arbeitszylinder.

Title (fr)

Cylindre de tavail sans tige de piston.

Publication

EP 0395915 B1 19940105 (DE)

Application

EP 90106762 A 19900409

Priority

DE 3914889 A 19890505

Abstract (en)

[origin: EP0395915A2] The working cylinder without piston rod is designed as a band cylinder, the band (3) in the cylinder covers (8) passing through a location chamber (10) for a sealing member and a guide member. The sealing member consists of a strip-like sealing element of elastic material on either side of the band, which sealing element can be designed as a lip seal on the piston side. The sealing elements (12, 13) are inserted into the location chamber (10) with elastic tensioning towards the band (3). The guide member arranged remote from the piston relative to the sealing member has a web-like guide element (23, 24) on either side of the band (3), which guide element (23, 24) is likewise pressed elastically against the band (3) by the tensioning of the sealing elements (12, 13). By means of stop surfaces (28), the guide elements (23, 24) end with a clearance gap (29) in front of the wall (15) of the location chamber (10). The result of this is that the band (3) can be elastically deflected from its desired position only by the clearance gap (29), positive-locking support of the guide elements (23, 24) on the cylinder cover (8) is then effected, and thus no further band deflection is possible. <IMAGE>

IPC 1-7

F15B 15/14; F16J 15/16

IPC 8 full level

F15B 15/08 (2006.01); **F15B 15/14** (2006.01); **F16J 15/16** (2006.01)

CPC (source: EP US)

F15B 15/084 (2013.01 - EP US)

Citation (examination)
- DE 1293037 B 19690417 - BERLIN HEINZ
- AT 364621 B 19811110 - MIRKOVIC RADIVOJE [YU], et al

Cited by

EP0735296A1

Designated contracting state (EPC)

AT DE FR GB IT SE

DOCDB simple family (publication)

EP 0395915 A2 19901107; **EP 0395915 A3 19920520**; **EP 0395915 B1 19940105**; AT E99774 T1 19940115; DE 3914889 A1 19901108; DE 59004082 D1 19940217; US 5020421 A 19910604

DOCDB simple family (application)

EP 90106762 A 19900409; AT 90106762 T 19900409; DE 3914889 A 19890505; DE 59004082 T 19900409; US 51946190 A 19900507