

Title (en)
Hydraulic actuator with pressure intensifier.

Title (de)
Hydraulikzylinder mit Druckübersetzung.

Title (fr)
Vérin hydraulique avec multiplicateur de pression.

Publication
EP 0442842 B1 19940406 (DE)

Application
EP 91810039 A 19910117

Priority
CH 47690 A 19900214

Abstract (en)
[origin: EP0442842A1] The hydraulic actuator has a cylinder tube (1), a piston-rod guide flange (2) and a cylinder base (1). A primary piston (4) provided with a piston rod (6) is arranged inside the actuator. Furthermore, a secondary piston (11) connected to two plungers (7, 8) is arranged inside the actuator. The plungers plunge into two bores (5, 6) of the primary piston. Two unlockable non-return valves (17, 18) preloaded by springs (19, 20) are provided in the cylinder base. Located in the non-return valves is one bore (41, 42) each, which connects the front side to the rear side of the respective valve. The rear parts (24, 25) of the valve chambers (26, 27) each have an unlocking piston (21, 22) designed as a ball. Two feed lines (23, 30) for the hydraulic fluid are connected to the non-return valve chambers, these chambers in turn having feed lines at various points of the inner space (16, 40, 45) of the actuator. A very compact type of construction can be made possible for the hydraulic actuator with pressure intensifier.

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F15B 15/20

IPC 8 full level
F15B 15/14 (2006.01); **F15B 11/032** (2006.01); **F15B 15/20** (2006.01)

CPC (source: EP)
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Cited by
CN115431940A; DE102006029523A1; DE102006029523B4; CN108561446A; US8430019B2

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