

Title (en)

Fluid pressure intensifier, especially for hydraulic fluids

Title (de)

Druckverstärker für Fluide, insbesondere für Hydraulikflüssigkeiten

Title (fr)

Amplificateur de pression de fluide, particulièrement de fluide hydraulique

Publication

EP 0825348 B1 20010919 (DE)

Application

EP 97111400 A 19970705

Priority

DE 19633258 A 19960817

Abstract (en)

[origin: DE19633258C1] A piston working in a cylinder has low- and high-pressure sides with unions together with a supply union, there being a differential piston between the two sides. The slide of a control valve alternately connected the low-pressure union to a pressure source and an accumulator, and is connected by a control pipe to the cylinder with pistons, the pressure in this pipe acting against one side of the side. The slide (17) consists of a differential piston, against whose other side (29) a constant pressure (P) acts. This pressure can be that of the pressure source, and the control pipe can lead into the high-pressure side of the cylinder at the portion swept by the booster piston, being shut off by the latter at the start of its stroke towards the high-pressure union. The slide can form an annular chamber (25) in the valve housing (18), into which tank-, pump- and cylinder-pipes lead.

IPC 1-7

F15B 3/00

IPC 8 full level

F16K 11/07 (2006.01); **F15B 3/00** (2006.01)

CPC (source: EP KR US)

F15B 3/00 (2013.01 - EP KR US)

Cited by

US8613602B2; WO2008019889A1

Designated contracting state (EPC)

DK FR GB IT NL SE

DOCDB simple family (publication)

DE 19633258 C1 19970828; CA 2211474 A1 19980217; CA 2211474 C 20010227; DK 0825348 T3 20020121; EP 0825348 A1 19980225; EP 0825348 B1 20010919; JP H1078002 A 19980324; KR 100225621 B1 19991015; KR 19980018740 A 19980605; US 6295914 B1 20011002

DOCDB simple family (application)

DE 19633258 A 19960817; CA 2211474 A 19970724; DK 97111400 T 19970705; EP 97111400 A 19970705; JP 21857997 A 19970813; KR 19970039234 A 19970818; US 90684497 A 19970806