

Title (en)

Flow distribution device, independent of the load pressure, for control valves in mobile working machines

Title (de)

Einrichtung zur lastdruckunabhängigen Durchflussverteilung bei einem Steuerschieber für mobile Bau- und Arbeitsmaschinen

Title (fr)

Dispositif pour une distribution du débit de fluide indépendante de la pression de charge des vannes de commande d'engins de chantier

Publication

EP 0733743 B1 19990630 (DE)

Application

EP 96102897 A 19960227

Priority

- DE 19510408 A 19950324
- DE 19520451 A 19950603

Abstract (en)

[origin: EP0733743A1] A regulator valve formed as compensator, is located between the pilot opening (4-6) of a slide valve and a working cylinder (1-3). The valve has an axially movable regulator piston (10,14,15), with two sides associated with first and second pressure chambers (17,22,23,9,24,25). The first chamber charges the piston with spring pressure (18) and the pressure from the working cylinder is charged with the highest load pressure. The second chamber is fitted into the feed line to the slide valve, and has a pilot opening (19,26,27) to the working cylinder, which is controlled by the piston edge of the regulator piston. A return valve (12,30,31) is located between the pressure chambers of each compensator.

IPC 1-7

E02F 9/22

IPC 8 full level

E02F 9/22 (2006.01); **F15B 11/05** (2006.01); **F15B 13/04** (2006.01)

CPC (source: EP)

E02F 9/2225 (2013.01); **E02F 9/2296** (2013.01); **F15B 11/163** (2013.01); **F15B 13/0417** (2013.01); **F15B 2211/20546** (2013.01); **F15B 2211/3054** (2013.01); **F15B 2211/351** (2013.01); **F15B 2211/6052** (2013.01); **F15B 2211/71** (2013.01); **F15B 2211/78** (2013.01)

Cited by

CN109869362A; FR3057309A1

Designated contracting state (EPC)

AT BE DE GB SE

DOCDB simple family (publication)

EP 0733743 A1 19960925; **EP 0733743 B1 19990630**; AT E181755 T1 19990715

DOCDB simple family (application)

EP 96102897 A 19960227; AT 96102897 T 19960227