

Title (en)  
HYDRAULIC DIRECTIONAL VALVE

Title (de)  
HYDRAULISCHES WEGEVENTIL

Title (fr)  
DISTRIBUTEUR HYDRAULIQUE

Publication  
**EP 1032375 A1 20000906 (DE)**

Application  
**EP 99969674 A 19990914**

Priority  

- DE 19844184 A 19980928
- EP 9906807 W 19990914

Abstract (en)  
[origin: WO0018382A2] Hydraulic directional valve including a control piston (main piston, 3) which can be moved against the force of a spring (main spring, 18) by the tappet of a magnet (12) from its first position (closing position) to its second position (open position). In the closed position, the pressure chamber (7) with the pump connection (P) is closed in relation to the consumer chamber (8) and the consumer chamber with the consumer (A) is open in relation to the return chamber (20). To this end, the consumer chamber (8) and the return chamber (2) are disposed on the opposite ends of the main piston (3), i.e. the consumer chamber (8) is disposed on the side facing the magnet and the return chamber (2) is mounted on the side opposite thereto. The main piston is penetrated by a central duct (21) connecting the consumer chamber (8) and the return chamber (2). The tappet of the magnet acts upon a plunger piston that can be displaced coaxially in relation to the main piston in the valve housing and that has a seat end facing the main piston (3) that closes the central duct when it contacts the main piston.

IPC 1-7  
**A61K 31/00**

IPC 8 full level  
**A61K 31/00** (2006.01); **F15B 13/04** (2006.01); **F15B 13/044** (2006.01); **F15B 19/00** (2006.01); **F15B 20/00** (2006.01)

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**Y10T 137/8158** (2015.04 - EP US); **Y10T 137/86919** (2015.04 - EP US); **Y10T 137/87217** (2015.04 - EP US)

Cited by  
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DOCDB simple family (publication)  
**WO 0018382 A2 20000406; WO 0018382 A3 20000810**; DE 19943828 A1 20000413; DE 59912263 D1 20050818; EP 1032375 A1 20000906;  
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