

Title (en)

Directional control valve section, especially for mobile equipment

Title (de)

Wegeventilscheibe, insbesondere für ein mobiles Arbeitsgerät

Title (fr)

Tranche de distributeur hydraulique, surtout pour un véhicule automobile

Publication

EP 1069317 A3 20011107 (DE)

Application

EP 00112754 A 20000616

Priority

- DE 19932325 A 19990710
- DE 19937226 A 19990806
- DE 19948232 A 19991007

Abstract (en)

[origin: EP1069317A2] Path valve disk has a cast housing with a design that accommodates the disk itself which is also a mass produced cast part. The valve housing accommodates the valve disk, which operates on the load sensing principle. The design has a new sand core for use in the casting process to accommodate the valve disk. In a second valve bore of a regulating piston a pressure scale is incorporated.

IPC 1-7

F15B 13/04; F15B 20/00

IPC 8 full level

E02F 9/22 (2006.01); **F15B 13/04** (2006.01); **F15B 13/00** (2006.01)

CPC (source: EP)

E02F 9/2203 (2013.01); **E02F 9/226** (2013.01); **E02F 9/2267** (2013.01); **E02F 9/2271** (2013.01); **E02F 9/2296** (2013.01); **F15B 13/0402** (2013.01); **F15B 13/0416** (2013.01); **F15B 2013/006** (2013.01)

Citation (search report)

- [DA] DE 19714141 A1 19981008 - MANNESMANN REXROTH AG [DE]
- [DA] DE 4324177 A1 19940217 - HEILMEIER & WEINLEIN [DE]
- [A] US 3908375 A 19750930 - YOUNG JOHN E G
- [A] US 4519419 A 19850528 - PETRO JOHN D [US]
- [A] DE 3839952 C1 19900426
- [DA] MANNESMANN REXROTH: "High pressure load-sensing control block type M4-15, series 1X in a sandwich plate design", DATENBLATT RE 64 282/01.97, January 1997 (1997-01-01), Lohr am Main, DE, pages 1 - 20, XP001027942

Cited by

CN109592566A; EP1736671A3; CN110173474A; US8356545B2; EP1736671A2; US8020485B2; WO2008025396A1; WO2006005496A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1069317 A2 20010117; **EP 1069317 A3 20011107**; **EP 1069317 B1 20030813**; AT E247234 T1 20030815; DK 1069317 T3 20031208

DOCDB simple family (application)

EP 00112754 A 20000616; AT 00112754 T 20000616; DK 00112754 T 20000616