

Title (en)
Controllable changeover valve

Title (de)
Steuerbares Umschaltventil

Title (fr)
Soupape de commutation commandable

Publication
EP 1176315 A3 20031112 (DE)

Application
EP 01111865 A 20010516

Priority
DE 10035628 A 20000721

Abstract (en)
[origin: EP1176315A2] The piloted switching valve has a first spring element (18) acting upon a valve spool (11) to give a maximum switching pressure, and a pressure reducer (30) acting on the spool in opposition to the first spring element. The pressure reducer has a movable control element (33) and a second spring element (31) to reduce the switching pressure determined by the first spring element to a lower pressure by tensioning of the second spring element. The valve spool connects the outlet line (4) to a first inlet line (2) if the pressure in the first inlet line is greater than the switching pressure, and connects the outlet line to a second inlet line (3) if the pressure is less.

IPC 1-7
F15B 11/028

IPC 8 full level
F15B 11/028 (2006.01)

CPC (source: EP)
F15B 11/028 (2013.01); **F15B 2211/20553** (2013.01); **F15B 2211/25** (2013.01); **F15B 2211/30525** (2013.01); **F15B 2211/3111** (2013.01); **F15B 2211/3127** (2013.01); **F15B 2211/327** (2013.01); **F15B 2211/355** (2013.01); **F15B 2211/6355** (2013.01)

Citation (search report)
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• [AD] DE 19642567 C1 19970821 - BRUENINGHAUS HYDROMATIK GMBH [DE]
• [A] US 4420011 A 19831213 - ROGER HARRY [US]
• [A] EP 0740083 A2 19961030 - BRUENINGHAUS HYDROMATIK GMBH [DE]
• [A] DE 3933393 A1 19910418 - TEVES GMBH ALFRED [DE]
• [A] US 5333451 A 19940802 - SAKIKAWA SHIGENORI [JP], et al
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Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

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EP 1176315 A2 20020130; EP 1176315 A3 20031112; EP 1176315 B1 20041229; DE 10035628 A1 20020207; DE 10035628 C2 20020606; DE 50104934 D1 20050203

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