

Title (en)

VALVE ARRANGEMENT FOR INCREASING THE OPERATING SPEED OF A WORKING CYLINDER

Publication

EP 0066274 B1 19850828 (DE)

Application

EP 82104683 A 19820528

Priority

US 26911081 A 19810601

Abstract (en)

[origin: ES8306235A1] A regenerative valve includes a housing having a valve bore therein intersecting with an extension passage interconnecting a pump and a piston extension chamber, a retraction passage interconnecting a sump and a piston retraction chamber, and a regenerative passage for communicating fluid from the retraction to the extension chamber upon extension of the piston. A poppet member is movable in the bore to open and block fluid flow through the extension passage. A shuttle member is movable in the bore to either open or block one or the other of the regenerative and retraction passages. The shuttle member engages the poppet to cause the poppet to open the extension passage when the shuttle moves to close the retraction passage and open the regenerative passage.

IPC 1-7

F15B 13/02; **F15B 11/04**; **F15B 15/17**

IPC 8 full level

F15B 11/024 (2006.01); **F15B 11/04** (2006.01); **F15B 13/02** (2006.01); **F15B 15/17** (2006.01)

CPC (source: EP US)

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Citation (examination)

- DE 2648608 B2 19790329
- US 4144947 A 19790320 - WITHERS JOHN A, et al

Cited by

FR2522109A1; EP0709577A1; FR2726343A1; US5749390A

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0066274 A1 19821208; **EP 0066274 B1 19850828**; AT E15253 T1 19850915; CA 1169742 A 19840626; DE 3265820 D1 19851003; ES 512689 A0 19830501; ES 8306235 A1 19830501; FI 70302 B 19860228; FI 70302 C 19860915; FI 821849 A0 19820524; US 4397221 A 19830809; ZA 823823 B 19840125

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