

Title (en)

Hydraulic control valve for a single-acting differential cylinder with five control edges

Title (de)

Hydraulisches Steuerventil für einen einseitig arbeitenden Differentialzylinder mit fünf Steuerkanten

Title (fr)

Soupape de distribution hydraulique pour un cylindre différentiel à simple effet dotée de cinq arêtes de commande

Publication

EP 2360380 B1 20161130 (DE)

Application

EP 11000886 A 20110204

Priority

DE 102010009085 A 20100224

Abstract (en)

[origin: DE102010009085B3] The valve (20) has a pump connection (P), a consumer connection (A1) for supply and discharge lines for a large swept volume of a double-action operating cylinder (10), another consumer connection (B) for supply and discharge lines for a small swept volume of the cylinder and a tank connection (T1) connected to a tank (17). A recess (34) forming a pressure discharge control edge is laid out in a piston collar (31) on fluid flow that is squeezed out of the small swept volume of the cylinder during slow movement, and exhibits dimension smaller than remaining recesses (32, 33) of the collar.

IPC 8 full level

F15B 13/02 (2006.01)

CPC (source: EP)

F15B 13/021 (2013.01); **F15B 13/0402** (2013.01)

Cited by

CN114810583A

Designated contracting state (EPC)

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DOCDB simple family (publication)

DE 102010009085 B3 20110310; EP 2360380 A2 20110824; EP 2360380 A3 20140730; EP 2360380 B1 20161130

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