

Title (en)
Valve assembly

Title (de)
Ventilanordnung

Title (fr)
Agencement de vannes

Publication
EP 2234135 B1 20130206 (DE)

Application
EP 10002602 A 20100312

Priority
DE 102009014421 A 20090326

Abstract (en)
[origin: EP2234135A2] The system (10) has a pilot control valve (13) including a 3/2 way valve, and a main valve arrangement whose main valves (11, 12) include 2/2-way valves. The pilot-control valve moves one of the main valves into an open position so as to direct a path for a high pressure fluid to a space above a piston (17). The pilot-control valve connects the space to a low-pressure tank (28) so as to relieve pressure in the space above the piston via another main valve. The pilot-control valve opens the latter main valve and closes the former main valve.

IPC 8 full level
F15B 13/043 (2006.01); **F16K 31/383** (2006.01); **H01H 33/34** (2006.01)

CPC (source: EP KR US)
F15B 11/006 (2013.01 - EP KR US); **F15B 13/022** (2013.01 - KR); **F15B 13/0405** (2013.01 - KR); **F15B 13/0431** (2013.01 - EP KR US); **F15B 15/1404** (2013.01 - KR); **H01H 33/34** (2013.01 - EP KR US); **H01H 33/55** (2013.01 - EP KR US); **H01H 33/561** (2013.01 - EP KR US); **F15B 13/0405** (2013.01 - EP US); **F15B 2211/30575** (2013.01 - EP KR US); **F15B 2211/329** (2013.01 - EP KR US); **F15B 2211/7052** (2013.01 - EP KR US); **H01H 2033/308** (2013.01 - EP US); **Y10T 137/87193** (2015.04 - EP US); **Y10T 137/87201** (2015.04 - EP US); **Y10T 137/87209** (2015.04 - EP US); **Y10T 137/87225** (2015.04 - EP US)

Cited by
DE102015121719A1; US10830256B2; EP2933816A1; US9506573B2

Designated contracting state (EPC)
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DOCDB simple family (publication)
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