

Title (en)

A pressure balancing valve for two cylinders operated in parallel

Title (de)

Druckentlastungsventil für zwei parallel funktionierende Zylinder

Title (fr)

Vanne équilibrée de pression pour deux cylindres fonctionnant en parallèle

Publication

**EP 2325499 A1 20110525 (EN)**

Application

**EP 09425475 A 20091119**

Priority

EP 09425475 A 20091119

Abstract (en)

A pressure balancing valve for two cylinders operated in parallel, comprising: a main conduit (21, 22) predisposed to be connected to a first cylinder (31) and to connect to a balancing conduit (40) connected to a second cylinder (32); an obturator (3), interposed between a first tract (21) and a second tract (22) of the main conduit (21, 22), which is mobile between a closed position, in which the first tract and the second tract of the main conduit (21,22) are not in mutual communication and the main conduit (21, 22) is interrupted, and an open position, in which the first tract and the second tract of the main conduit (21, 22) are in mutual communication; thrust means (4), predisposed to push the obturator (3) towards the closed position; piloting means (5, 6), predisposed to push the obturator (3) towards the open position, which comprise a first piloting conduit (5) that places the second tract (22) of the main conduit (21, 22) in communication with a thrust surface of the obturator (3), such that the pressure internally of the tract of the second tract (22) of the main conduit (21, 22) exerts a force which acts on the thrust surface of the obturator (3) in order to push the obturator (3) towards the open position.

IPC 8 full level

**F15B 11/16** (2006.01); **F15B 13/02** (2006.01)

CPC (source: EP)

**E02F 9/2203** (2013.01); **E02F 9/226** (2013.01); **F15B 13/02** (2013.01); **F15B 2211/7128** (2013.01)

Citation (applicant)

US 4682931 A 19870728 - HOUSE MARSHALL K [US]

Citation (search report)

- [X] US 4682931 A 19870728 - HOUSE MARSHALL K [US]
- [X] US 6431816 B1 20020813 - JORDAN DEAN CLARK [US], et al
- [X] US 2007017364 A1 20070125 - VENEZIANI LUCIANO [IT]
- [X] US 4080994 A 19780328 - FLASCHAR HEINZ, et al

Cited by

CN109555743A; CN104140045A; CN113048104A; CN103486105A; CN104088843A; CN108019391A; IT201800007167A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**EP 2325499 A1 20110525**

DOCDB simple family (application)

**EP 09425475 A 20091119**