Title (en)

A high pressure relief and control valve assembly

Title (de)

Druckenlastung und Kontrollventilanordnung

Title (fr)

Ensemble de soupapes de décharge et de contrôle

Publication

EP 1895169 A1 20080305 (EN)

Application

EP 06425615 A 20060904

Priority

EP 06425615 A 20060904

Abstract (en)

The valve comprises: at least a first opening (11), at least a second opening (12) and at least a third opening (13); a first obturator (14), mobile between at least a first position thereof, in which it prevents a connection between the first opening (11) and the second opening (12), and at least a second position, in which it places the first opening (11) and the second opening (12) in communication. The first obturator (14) is mobile from the first position to the second position by effect of a pilot pressure which acts in opposition to a force exerted by elastic means (17) operating inside a chamber (18), which tend to push the first obturator (14) from the second position towards the first position thereof. A second obturator (19) is mobile between at least a first position, in which it prevents a connection between the first opening (11) and a pilot chamber (16), and at least a second position, in which it places the first opening (11) in communication with the pilot chamber (16). The second obturator (19) is mobile from the first position towards the second position by effect of a thrust exerted by the pressure at the first opening (11) directed in opposition to elastic means (20) which tend to push the second obturator (19) from the second position towards the first position. A distributor (21) selectively places the chamber (18) in communication with the second opening (12) or with the third opening (13).

IPC 8 full level

F15B 13/02 (2006.01)

CPC (source: EP)

F15B 11/003 (2013.01); F15B 2211/46 (2013.01); F15B 2211/50518 (2013.01); F15B 2211/513 (2013.01); F15B 2211/7053 (2013.01)

Citation (search report)

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- [A] GB 2112909 A 19830727 KOMATSU MFG CO LTD
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- [A] EP 0331076 A1 19890906 KOBE STEEL LTD [JP]
- [A] DE 102004032652 A1 20050414 DEERE & CO [US]

Cited by

EP2631517B1; EP2317191A1; EP2631517A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

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DOCDB simple family (application)

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