

Title (en)
Load holding valve

Title (de)
Lasthalteventil

Title (fr)
Soupape à maintien de charge

Publication
EP 2631517 A1 20130828 (EN)

Application
EP 13156196 A 20130221

Priority
IT MO20120042 A 20120222

Abstract (en)
A load-holding valve (1) comprises: a body (2) provided with a plurality of openings (3, 4, 5) through which a pressurised fluid can enter, or exit, the valve (1); a main piston (30); throttling means (50) intended for being traversed by the pressurised fluid; the valve comprises piloting means (10) that can alternatively assume an open configuration (O), in which the piloting means (10) enables a portion of pressurised fluid to pass into a piloting chamber (68) for moving the main piston (30) along a direction (X) that is substantially parallel to a longitudinal axis (A), and a closed configuration (I) in which the piloting means (10) prevents the passage of the fluid and the main piston (30) is moved in the direction (X) by the pressurised fluid that reaches the piloting chamber (68) after traversing the throttling means (50).

IPC 8 full level
F16K 31/363 (2006.01); **F16K 31/124** (2006.01)

CPC (source: EP)
E02F 9/2267 (2013.01); **F15B 13/015** (2013.01)

Citation (search report)

- [X] US 4431020 A 19840214 - KOWALSKI SLAWOMIR [US]
- [X] EP 2402143 A1 20120104 - SMI SPA [IT]
- [A] US 2803266 A 19570820 - HATHORN TOWLER FRANK

Citation (third parties)
Third party :

- EP 1178219 A1 20020206 - OIL CONTROL SPA [IT]
- EP 1895169 A1 20080305 - OIL CONTROL SPA [IT]

Cited by
IT202000017854A1; CN105987035A; CN108757615A; EP3081819A4; CN110513345A; WO2022018549A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2631517 A1 20130828; EP 2631517 B1 20201209; IT MO20120042 A1 20130823

DOCDB simple family (application)
EP 13156196 A 20130221; IT MO20120042 A 20120222