

Title (en)
PRESSURE RELIEF DEVICE

Title (de)
DRUCKENTLASTUNGSVORRICHTUNG

Title (fr)
LIMITEUR DE PRESSION

Publication
EP 1902214 A1 20080326 (FR)

Application
EP 06764780 A 20060613

Priority
• FR 2006001331 W 20060613
• FR 0506064 A 20050615

Abstract (en)
[origin: WO2006134264A1] The inventive pressure relief device (27) is used in a high-pressure fluid circuit for limiting the pressure in the case of a failure of a circuit component and comprises a body (4) and a pusher (3) sliding therein and axially movable by return means (5) in such a way that it drives sealing means (2) of an orifice (9) connecting an upstream chamber (7) receiving a high-pressure fluid and a downstream chamber (10) which is delimited by the body (4), the side of the pusher (3) and the perforated wall of said orifice (9), wherein said downstream chamber (10) comprises at least one fluid discharge opening (12, 12') and the sealing means (2) held by the return means (5) in the position closing the orifice (9) below a predetermine pressure threshold in the upstream chamber (7). The pusher (3) devoid of axial through channels slides in the body (4) with a small running clearance and the size thereof is selected in such a way that it makes it possible to close at least partially each discharge opening (12, 12'), at least one of which is connected to an opening (15) also embodied in the body (4) and open at least partially to the opposite side of the pusher (3).

IPC 8 full level
F02M 63/02 (2006.01); **F02M 63/00** (2006.01); **F16K 15/04** (2006.01); **F16K 17/04** (2006.01)

CPC (source: EP US)
F02M 63/0043 (2013.01 - EP US); **F02M 63/0215** (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US); **Y10T 137/7739** (2015.04 - EP US); **Y10T 137/774** (2015.04 - EP US); **Y10T 137/7741** (2015.04 - EP US); **Y10T 137/7922** (2015.04 - EP US)

Citation (search report)
See references of WO 2006134264A1

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

DOCDB simple family (publication)
WO 2006134264 A1 20061221; **WO 2006134264 A8 20080925**; AT E511603 T1 20110615; CN 101313143 A 20081126; CN 101313143 B 20121107; EP 1902214 A1 20080326; EP 1902214 B1 20110601; FR 2887319 A1 20061222; FR 2887319 B1 20070928; US 2009217989 A1 20090903; US 8245725 B2 20120821

DOCDB simple family (application)
FR 2006001331 W 20060613; AT 06764780 T 20060613; CN 200680021660 A 20060613; EP 06764780 A 20060613; FR 0506064 A 20050615; US 92208106 A 20060613