

Title (en)
Passive flow control valve

Title (de)
Passives Mengenbegrenzungsventil

Title (fr)
Soupape de limitation de débit passive

Publication
EP 2423498 B1 20130911 (DE)

Application
EP 11169400 A 20110610

Priority
• EP 10174196 A 20100826
• EP 11169400 A 20110610

Abstract (en)
[origin: EP2423498A1] The passive flow control valve (1) has valve housing (2) with an inlet (3) and an outlet (4) for a flowable medium. A valve chamber (5) is arranged between the inlet and outlet. An input-side closing element is pre-stressed by a spring (8) against an input-side valve seat (31). A piston (7) is provided on a valve body (6), where outer side of the piston is guided through the wall of the valve chamber in sliding manner. A passage hole (73) is provided in an end face of the piston through which the flowable medium flows. An independent claim is also included for a large diesel engine with flow control valve that is arranged between a high-pressure reservoir for a fuel and a fuel injector nozzle.

IPC 8 full level
F02M 63/02 (2006.01); **F02M 55/02** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP KR)
F02M 55/02 (2013.01 - EP KR); **F02M 59/46** (2013.01 - KR); **F02M 63/004** (2013.01 - EP); **F02M 63/02** (2013.01 - KR);
F02M 63/0215 (2013.01 - EP); **F02M 63/0225** (2013.01 - EP)

Cited by
DE102016101425A1; DE102016101425B4; EP3023628A1; AT513158A1; AT513158B1; WO2015177399A1; DE102014105439A1;
WO2015158413A1; US10480467B2

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

DOCDB simple family (publication)
EP 2423498 A1 20120229; EP 2423498 B1 20130911; CN 102383995 A 20120321; CN 102383995 B 20160427; DK 2423498 T3 20131209;
JP 2012047170 A 20120308; JP 5881981 B2 20160309; KR 101917389 B1 20181109; KR 20120020056 A 20120307

DOCDB simple family (application)
EP 11169400 A 20110610; CN 201110247768 A 20110825; DK 11169400 T 20110610; JP 2011144527 A 20110629;
KR 20110083454 A 20110822