

Title (en)

Device for damping of pressure pulsations in a fluid system, especially in a fuel system of an internal combustion engine

Title (de)

Vorrichtung zum Dämpfen von Druckpulsationen in einem Fluidsystem, insbesondere in einem Kraftstoffsystem einer Brennkraftmaschine

Title (fr)

Dispositif pour l'atténuation des pulsations de pression dans un système de fluide, en particulier dans un système de carburant d'un moteur à combustion interne

Publication

EP 2278150 B1 20121010 (DE)

Application

EP 10180722 A 20030716

Priority

- EP 03015623 A 20030716
- DE 10248822 A 20021019
- DE 10327408 A 20030618

Abstract (en)

[origin: EP2278151A1] The device has housings (38, 40) and an operating chamber (66) that is in communication with a fluid system i.e. fuel system, of an internal combustion engine. A gas volume (58) sealable-closed by membranes (54a, 54b) are provided within the operating chamber, where the device is integrated in housing of a fuel pump. The gas volume is limited by the membranes that are arranged parallel to each other, where edges of the membranes are connected with each other. The operating chamber is sub-divided into two regions by the membranes.

IPC 8 full level

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CPC (source: EP)

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Citation (examination)

- US 6079450 A 20000627 - ONISHI YOSHIHIKO [JP], et al
- EP 1342911 A2 20030910 - HITACHI LTD [JP], et al
- EP 0950809 A2 19991020 - MITSUBISHI ELECTRIC CORP [JP]
- US 5794594 A 19980818 - FEHLMANN WOLFGANG [DE]
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CN115218057A; CN112739903A; DE102019101135A1; WO2020148020A1

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DE 10327408 A1 20040429; **DE 10327408 B4 20171026**; DE 10362411 B3 20170907; DE 10362412 B3 20170907; EP 2278150 A1 20110126; EP 2278150 B1 20121010; EP 2278151 A1 20110126; EP 2278151 B1 20150114; EP 2284384 A2 20110216; EP 2284384 A3 20110323; EP 2284384 B1 20121010; ES 2391627 T3 20121128; ES 2391727 T3 20121129; ES 2393308 T3 20121220; ES 2528601 T3 20150210

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