

Title (en)

Fuel injection pump with elastic pressure exchanger.

Title (de)

Kraftstoffeinspritzpumpe mit elastischem Druckaustauscher.

Title (fr)

Pompe d'injection de combustible comprenant un échangeur de pression élastique.

Publication

EP 0261258 A1 19880330 (EN)

Application

EP 86113028 A 19860922

Priority

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Abstract (en)

In order to isolate the injection pumping element (2) in a conventional high pressure fuel injection system from the fuel, a pressure exchanger, consisting of two chambers interconnected by an elastic member (14) such as a membrane or bellows, is installed in the delivery conduit between pumping element (2) and injector (9). This allows the pumping element (2) to work with any suitable fluid, e.g. one with better lubrication properties than the fuel itself. The pressure impulses from the pumping element (2) are thus transmitted through the elastic member (14) to the fuel which, through suitable check valve means, (17, 18) is pumped to the injector (9).

IPC 1-7

F02M 59/14

IPC 8 full level

F02M 59/14 (2006.01)

CPC (source: EP)

F02M 59/14 (2013.01)

Citation (search report)

- [A] US 4008009 A 19770215 - KOVACS ENDRE, et al
- [A] US 2395330 A 19460219 - HOUSER JESSE E
- [A] FR 1251087 A 19610113
- [A] FR 1586774 A 19700227
- [X] DERWENT - WPI, Derwent Publications Ltd., London, GB; & AU-A-33 808/84 (TAPIA) 1st May 1986 - & US-A- 4 662 828

Cited by

CN101892889A; WO0019086A1

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DE FR GB IT SE

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