

Title (en)

Fuel rail of a combustion engine

Title (de)

Kraftstoffleiste eines Verbrennungsmotors

Title (fr)

Rampe de carburant d'un moteur à combustion

Publication

EP 2080894 A1 20090722 (EN)

Application

EP 08000958 A 20080118

Priority

EP 08000958 A 20080118

Abstract (en)

Fuel rail (18) of a combustion engine (22) comprising a main tube (32) with a longitudinal central axis (A) and a cavity (36) forming an inner surface (38), the main tube (32) being designed to contain fuel, a membrane (44) being arranged in the cavity (36) and being fixedly coupled to the inner surface (38) of the main tube (32) in a manner to sealingly separate a damping chamber (48) of the cavity (36) from a fuel chamber (50) of the cavity (36). The membrane (44) is designed to oscillate in axial direction. The membrane (44) and the damping chamber (48) are designed to compensate pressure variations of the fuel in the fuel chamber (50) of the main tube (32).

IPC 8 full level

F02M 55/02 (2006.01); **F02M 55/04** (2006.01); **F02M 69/46** (2006.01)

CPC (source: EP)

F02M 55/025 (2013.01); **F02M 55/04** (2013.01); **F02M 69/465** (2013.01); **F02M 2200/31** (2013.01); **F02M 2200/315** (2013.01)

Citation (applicant)

- DE 102004019787 A1 20051117 - WINKELMANN PALSIS MOTORTECHNIK [DE]
- US 2006266333 A1 20061130 - LI JOE Z [US], et al
- EP 0785357 A1 19970723 - TOYOTA MOTOR CO LTD [JP]
- DE 19837120 A1 20000224 - BAYERISCHE MOTOREN WERKE AG [DE]

Citation (search report)

- [XY] DE 102004019787 A1 20051117 - WINKELMANN PALSIS MOTORTECHNIK [DE]
- [Y] US 2006266333 A1 20061130 - LI JOE Z [US], et al
- [Y] EP 0785357 A1 19970723 - TOYOTA MOTOR CO LTD [JP]
- [Y] US 2003080556 A1 20030501 - KILGORE JASON T [US]
- [Y] DE 19837120 A1 20000224 - BAYERISCHE MOTOREN WERKE AG [DE]

Cited by

EP3633181A1; JP2014009680A; FR2989122A1; JP2015513042A; US10519890B2; US9074565B2; DE102020114435B3; US2014283789A1; US9518544B2; WO2013153324A1; JP2014020370A; EP3483422B1

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