

Title (en)

Fuel pump for a motor vehicle

Title (de)

Kraftstoffpumpe für ein Kraftfahrzeug

Title (fr)

Pompe de combustible pour un véhicule automobile

Publication

EP 0702143 A1 19960320 (DE)

Application

EP 95112200 A 19950803

Priority

- DE 4433010 A 19940915
- DE 4434244 A 19940924

Abstract (en)

The motor vehicle fuel pump is formed as a pump unit (4) of a multiple pump (2). A further pump unit (6) is provided for transmission of greater power. The first pump unit is of the double stroke type and the drive for it and at least of a further pump unit is a coupling-less common shaft (8). A rotor (42) of the pump unit of the multiple pump is drivably held by a free shaft pin (40). The fuel pump unit is of the vane cell or roller cell type. It can also be formed as a link auxiliary pump and its shaft bearing (16) is lubricated by the delivery medium of the further pump unit.

Abstract (de)

Um eine Kraftstoffpumpe für ein Kraftfahrzeug dahingehend zu verbessern, daß sie innerhalb des Motorraums, insbesondere bei Wartung und Reparatur, besser zugänglich ist sowie wirtschaftlicher herstellbar ist als bekannte Kraftstoffpumpen, wird erfindungsgemäß vorgeschlagen, die Kraftstoffpumpe in Form einer Pumpeneinheit (4) einer Mehrfachpumpe (2) auszubilden. <IMAGE>

IPC 1-7

F02M 37/14; **F04C 11/00**; **F04C 2/344**

IPC 8 full level

F02M 37/14 (2006.01); **F04C 11/00** (2006.01); **F04C 14/28** (2006.01)

CPC (source: EP)

F04C 11/001 (2013.01); **F04C 14/28** (2013.01)

Citation (search report)

- [XY] US 1780217 A 19301104 - SUMNER WILTSE
- [Y] EP 0284241 A2 19880928 - LUCAS IND PLC [GB]
- [Y] US 4497618 A 19850205 - ANDERSON STANLEY E [US], et al
- [X] US 2936774 A 19600517 - HOLLEY JR GEORGE M, et al
- [X] DE 3122336 A1 19820304 - BARMAG BARMER MASCHF [DE]
- [A] US 4259044 A 19810331 - DRUTCHAS GILBERT H, et al
- [A] EP 0178782 A1 19860423 - GEN MOTORS CORP [US]
- [A] FR 2512888 A1 19830318 - SIETTE SPA [IT]
- [A] US 3196926 A 19650727 - GARTLAND WILLIAM A
- [A] DE 2444799 A1 19760408 - VOLKSWAGENWERK AG

Cited by

CN103047131A; WO2010071497A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0702143 A1 19960320; **EP 0702143 B1 19990224**; JP 3875734 B2 20070131; JP H0893588 A 19960409

DOCDB simple family (application)

EP 95112200 A 19950803; JP 23260795 A 19950911