

Title (en)  
Gear pump

Title (de)  
Zahnradförderpumpe

Title (fr)  
Pompe à engrenages

Publication  
**EP 1209359 A3 20030723 (DE)**

Application  
**EP 01124838 A 20011018**

Priority  
DE 10058012 A 20001123

Abstract (en)  
[origin: EP1209359A2] Gear pump comprises a pair of rotating gear wheels (16, 18) arranged in a pump chamber of a housing (10, 12) which convey fuel from an intake chamber along conveying channels formed between the peripheries of the gear wheels and peripheral walls of the pump chamber into a pressure chamber. One of the gear wheels (16) has a bore (32) and is fixed to the drive shaft (22) rotatably positioned in the housing. At least one radially elastic connecting element (40) is arranged on the drive shaft and presses into the bore of the gear wheel. Preferred Features: The connecting element is a corrugated sleeve preferably made of metal. The gear wheel (16) is made of sintered metal, especially sintered steel.

IPC 1-7  
**F04C 2/14**; **F04C 15/00**

IPC 8 full level  
**F04C 2/18** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP US)  
**F04C 15/0073** (2013.01 - EP US)

Citation (search report)  
• [E] EP 1311762 A1 20030521 - BOSCH GMBH ROBERT [DE]  
• [YD] DE 19625488 A1 19980115 - BOSCH GMBH ROBERT [DE]  
• [Y] FR 2556427 A1 19850614 - KLEIN SCHANZLIN & BECKER AG [DE]  
• [Y] FR 613632 A 19261125 - ANCIENS ETS SKODA  
• [Y] DE 2722533 A1 19781123 - AUDI AG & WO 0216772 A1 20020228 - BOSCH GMBH ROBERT [DE], et al

Cited by  
WO2008135433A1

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DOCDB simple family (publication)  
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**EP 01124838 A 20011018**; CN 01140019 A 20011120; DE 10058012 A 20001123; JP 2001354834 A 20011120; US 99051601 A 20011121