

Title (en)  
INTERNAL GEAR PUMP

Title (de)  
INNENZAHNRADPUMPE

Title (fr)  
POMPE A ENGRENAGES INTERIEURS

Publication  
**EP 1305523 B1 20080109 (DE)**

Application  
**EP 01953920 A 20010714**

Priority  
• DE 0102633 W 20010714  
• DE 10035900 A 20000721

Abstract (en)  
[origin: WO0208608A1] The invention relates to an internal gear pump for delivering fuel in an internal combustion engine. Said pump comprises an internal geared annular gear (11) and an external geared pinion (3), which interacts with the annular gear (11) for producing a pump action. In order to increase the delivery capacity during a starting rotational speed and to prolong the serviceable life of the internal gear pump, the pinion (3) is mounted on a bearing shaft end (5) in a manner that is eccentric to the annular ring (11) and such that it can radially move. A device (12) is also provided, which compensates for the radial play (R) between the pinion (3) and the annular ring (11).

IPC 8 full level  
**F04C 2/10** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP KR US)  
**F04C 2/10** (2013.01 - KR); **F04C 15/0019** (2013.01 - EP US); **F04C 2230/602** (2013.01 - EP US); **F04C 2240/51** (2013.01 - EP US)

Citation (examination)  
US 5226798 A 19930713 - EISENMANN SIEGFRIED A [DE]

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**WO 0208608 A1 20020131**; CN 1236211 C 20060111; CN 1386171 A 20021218; DE 10035900 A1 20020131; DE 50113477 D1 20080221; EP 1305523 A1 20030502; EP 1305523 B1 20080109; JP 2004504545 A 20040212; KR 100770965 B1 20071030; KR 20020033178 A 20020504; US 2003077196 A1 20030424; US 6676394 B2 20040113

DOCDB simple family (application)  
**DE 0102633 W 20010714**; CN 01802127 A 20010714; DE 10035900 A 20000721; DE 50113477 T 20010714; EP 01953920 A 20010714; JP 2002514265 A 20010714; KR 20027003459 A 20020315; US 8867202 A 20020611