

Title (en)  
FUEL FEED PUMP

Title (de)  
KRAFTSTOFFZUFUHRPUMPE

Title (fr)  
POMPE D'ALIMENTATION EN COMBUSTIBLE

Publication  
**EP 1582735 A1 20051005 (EN)**

Application  
**EP 03768174 A 20031224**

Priority  
• JP 0316586 W 20031224  
• JP 2003002734 A 20030109

Abstract (en)  
[origin: WO2004063559A1] A fuel feed pump simple in construction, easy to produce, and capable of efficiently pressurizing a high flow rate of fuel. The fuel feed pump (50) comprises a housing (52), a plunger barrel (53), a fuel-pressurizing plunger (54) installed for lifting and lower movement in the plunger barrel, a cam (60) rotatably installed below the plunger, a tappet structure (6) installed between the cam (60) and the plunger (54) for transmitting the turning force, serving as a lifting force, from the cam shaft (3) to the plunger (54), and a return spring (68) installed between the tappet structure (6) and the plunger barrel (53) for imparting a lowering force to the plunger (54), wherein the plunger barrel (53) has a projection (53a) for supporting the upper end of the return spring (68).

IPC 1-7  
**F02M 59/44**; **F02M 59/10**

IPC 8 full level  
**F02M 59/10** (2006.01); **F02M 59/44** (2006.01); **F04B 1/04** (2006.01); **F04B 53/16** (2006.01)

CPC (source: EP KR)  
**F02M 59/10** (2013.01 - KR); **F02M 59/102** (2013.01 - EP); **F02M 59/44** (2013.01 - KR); **F02M 59/442** (2013.01 - EP); **F04B 1/0421** (2013.01 - EP); **F04B 1/0426** (2013.01 - EP); **F04B 1/0439** (2013.01 - EP); **F04B 53/162** (2013.01 - EP)

Cited by  
WO2012146428A1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**WO 2004063559 A1 20040729**; AU 2003292759 A1 20040810; CN 1714236 A 20051228; EP 1582735 A1 20051005; EP 1582735 A4 20060607; JP WO2004063559 A1 20060518; KR 20050003405 A 20050110

DOCDB simple family (application)  
**JP 0316586 W 20031224**; AU 2003292759 A 20031224; CN 200380100436 A 20031224; EP 03768174 A 20031224; JP 2004566297 A 20031224; KR 20047017620 A 20031224