

Title (en)

PISTON PUMP FOR SUPPLYING FUEL AT HIGH PRESSURE

Title (de)

KOLBENPUMPE ZUR KRAFTSTOFFHOCHDRUCKVERSORGUNG

Title (fr)

POMPE A PISTON POUR LA PRODUCTION DE HAUTE PRESSION DE CARBURANT

Publication

**EP 1121530 B1 20030122 (DE)**

Application

**EP 99939360 A 19990617**

Priority

- DE 9901781 W 19990617
- DE 19848040 A 19981017

Abstract (en)

[origin: DE19848040A1] A pump housing (2) has a first plate (16) to seal it against an internal chamber (10), which is covered by a second plate (18). Both plates engage on each other full-surface. A section of a first channel (29) containing fuel at under pressure, passes through the first plate between pump housing and second plate. A second back pressure valve (12) is located between first plate and pump housing. A second channel (31) containing fuel at high pressure, extends between the second valve and a cylinder chamber (17) in the first plate.

IPC 1-7

**F04B 1/04**

IPC 8 full level

**F02M 59/06** (2006.01); **F02M 59/44** (2006.01); **F02M 59/46** (2006.01); **F04B 1/02** (2006.01); **F04B 1/04** (2006.01); **F04B 9/04** (2006.01); **F04B 53/00** (2006.01)

CPC (source: EP US)

**F04B 1/0448** (2013.01 - EP US)

Cited by

US8590442B2; WO2009071462A1

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**DE 19848040 A1 20000420**; DE 59904113 D1 20030227; EP 1121530 A1 20010808; EP 1121530 B1 20030122; JP 2002527680 A 20020827; JP 4199930 B2 20081224; US 6450788 B1 20020917; WO 0023710 A1 20000427

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