

Title (en)

HIGH TEMPERATURE FUEL DEFLECTOR FOR A FUEL PUMP DRIVE ASSEMBLY

Title (de)

HOCHTEMPERATURBRENNSTOFFDEFLEKTOR FÜR EINE KRAFTSTOFFPUMPENANTRIEBSANORDNUNG

Title (fr)

DÉFLECTEUR DE COMBUSTIBLE À TEMPÉRATURE ÉLEVÉE POUR UN ENSEMBLE D'ENTRAÎNEMENT DE POMPE À CARBURANT

Publication

**EP 3064759 A1 20160907 (EN)**

Application

**EP 16153708 A 20160201**

Priority

GB 201503556 A 20150303

Abstract (en)

During the operation of a high pressure fuel pump, it is normal to expect internal fuel leakage between a pumping plunger (30') and plunger bore (28'). Current pump designs position critical interfaces (55', 59') directly in-line with the leaking fuel. A fuel deflector surface (58') may be used to re-direct the flow of hot, leaking fuel away from the critical interfaces (55', 59') and toward a lower cam box (51') where the fuel may be cooled with other resident fuel. The deflector surface (58') may be shaped and vents (52') positioned to channel (B) the hot fuel to flow toward a lower cam box (51').

IPC 8 full level

**F02M 59/10** (2006.01); **F02M 59/36** (2006.01); **F04B 1/04** (2006.01)

CPC (source: EP)

**F02M 59/102** (2013.01); **F02M 59/36** (2013.01); **F04B 1/0408** (2013.01); **F04B 1/0426** (2013.01); **F04B 1/053** (2013.01); **F02M 2200/02** (2013.01)

Citation (search report)

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- [X] DE 102006038839 A1 20080221 - BOSCH GMBH ROBERT [DE]
- [X] US 2006013701 A1 20060119 - BOOS BURKHARD [DE], et al
- [X] DE 102012210199 A1 20131219 - BOSCH GMBH ROBERT [DE]

Cited by

GB2570290A; GB2570290B

Designated contracting state (EPC)

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Designated extension state (EPC)

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