

Title (en)

HIGH PRESSURE DIESEL FUEL PUMPS AND SHOE ARRANGEMENTS

Title (de)

HOCHDRUCKDIESELKRAFTSTOFFPUMPEN UND SCHLITTENANORDNUNG

Title (fr)

POMPES À CARBURANT DIESEL À HAUTE PRESSION ET AGENCEMENTS DE CHAUSSURE

Publication

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Application

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Abstract (en)

The invention relates to a high pressure diesel fuel pump comprising a pumping assembly and a drivetrain assembly, the pumping assembly comprising a pump housing and a plunger (10) mounted along a pumping axis (A-A'), the drivetrain assembly comprising a drive shaft and a cam arrangement (20) having a cam (22) and a cam follower (23) mounted within a drivetrain housing (not shown), the cam follower (23) comprising a shoe (25) and a roller (24), the plunger (10) being driven in reciprocating linear movement along the pumping axis A-A' upon rotation of the cam arrangement (20), wherein the shoe (25) comprises at least one vibration damping layer (31) disposed below a plunger-engaging surface (27). The invention also extends to an improved shoe (25) for a pumping plunger (10) of a high pressure diesel fuel pump.

IPC 8 full level

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Citation (search report)

- [X] JP H09228923 A 19970902 - ISUZU MOTORS LTD
- [A] US 2009065292 A1 20090312 - BEARDMORE JOHN M [US], et al
- [A] WO 2012013452 A1 20120202 - BOSCH GMBH ROBERT [DE], et al

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