

Title (en)

Fuel pump for a diesel engine fuel injection means

Title (de)

Kraftstoffpumpe für das Einspritzungsmittel eines Dieselmotors

Title (fr)

Pompe de carburant pour moyen d'injection de carburant d'un moteur diesel

Publication

EP 0737809 A1 19961016 (EN)

Application

EP 96110036 A 19910612

Priority

EP 91810447 A 19910612

Abstract (en)

A fuel pump (12) for a diesel engine fuel injection means, comprising: a body adapted to receive fuel from a source; a rotatable camshaft (202) supported in the body so as to be rotatable about an axis, and having a pair of cam lobes (210) including a first cam lobe and a second cam lobe disposed 180 degrees apart and adapted to rotate in an annular path about the axis of rotation of the camshaft; at least one pair of reciprocating pumping elements (212,214) mounted in the body perpendicular to the axis of rotation of the camshaft, each of said pumping elements including an elongated plunger (252) having an axial passage (260), including a first end and a second end, the first end being connected to a source of liquid fuel, a structure slideably mounted on the plunger so as to form an expandable chamber (256) at the second end of the axial passage, and being movable either to enlarge or reduce the volume of the chamber depending upon the direction of relative motion of said structure and said plunger, tappet means (244) connecting the camshaft to said structure such that as said chamber is being enlarged in volume, fuel is received therein, and as said chamber is being reduced in volume, fuel is discharged therefrom; and means (230) for fluidly connecting the pumping elements to fuel injection means for passing fuel under pressure thereto in response to rotation of the camshaft.

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Citation (search report)

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