

Title (en)
FUEL INJECTION PUMP

Title (de)
KRAFTSTOFFEINSPRITZPUMPE

Title (fr)
POMPE D'INJECTION DE CARBURANT

Publication
EP 0795083 A1 19970917 (DE)

Application
EP 96908019 A 19960329

Priority
• DE 9600612 W 19960329
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Abstract (en)
[origin: US5794594A] PCT No. PCT/DE96/00612 Sec. 371 Date Apr. 28, 1997 Sec. 102(e) Date Apr. 28, 1997 PCT Filed Mar. 29, 1996 PCT Pub. No. WO97/08454 PCT Pub. Date Mar. 6, 1997A fuel injection pump for internal combustion engines, which includes at least one pump piston driven by a cam drive mechanism to carry out a feed stroke and an intake stroke. The pump includes a fuel filled storage chamber that is under storage pressure and is for aspirating fuel in the intake stroke and for feeding excess fuel at the end of the feed stroke to a tank. A fluid filled drive mechanism chamber under lubrication pressure, contains the cam drive mechanism and is divided from the intake chamber by a movable wall. A vacuum chamber is disposed in the fluid filled drive mechanism chamber in order to damp pressure oscillations in the drive mechanism chamber, the vacuum chamber is at least partially defined by a membrane that is acted upon by the lubrication pressure. The rigidity of the membrane is designed so that its effectiveness comes into play only when there is a pressure load that is slightly greater than the stationary lubrication pressure in the drive mechanism chamber (22).

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