

Title (en)
HIGH PRESSURE PUMP

Title (de)
HOCHDRUCKPUMPE

Title (fr)
POMPE HAUTE PRESSION

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Application
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Abstract (en)
[origin: WO2011128151A1] The invention relates to a high-pressure pump (1), which is used in particular as a radial or in-line piston pump for fuel injection systems of air-compressing, auto-igniting internal combustion engines, comprising a pump assembly (5) and a drive shaft (6), which comprises a cam (7) associated with the pump assembly (15). The pump assembly (15) has a roller shoe (30) and a roller (31) mounted in the roller shoe (30). The roller (31) rolls on a running face (34) of the cam (7). To this end, the cam (7) has eased areas (40, 41) on the running face (34) thereof. The eased areas (40, 41) ensure advantageous guidance of the roller (31) on the running face (34). The eased areas (40, 41) are needed in order to avoid edge loading. The fact that the eased areas are located on the camshaft and not on the roller (31) means that the hydrodynamics between the roller (31) and the roller shoe (30) can be perfected.

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