

Title (en)
HIGH PRESSURE PUMP

Title (de)
HOCHDRUCKPUMPE

Title (fr)
POMPE À HAUTE PRESSION

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Abstract (en)
[origin: WO2011018389A1] The invention relates to a high pressure pump (1), in particular serving as a radial or reciprocating pump for fuel injection systems of air-compressing, self-igniting internal combustion engines, comprising a pump assembly (6) and a drive shaft (3). The drive shaft (3) comprises a cam (5) associated with the pump assembly (6). The pump assembly (6) further comprises a pump piston (11), a roller (21) running on a cam surface (22) of the cam (5), and a roller stem (20) receiving the roller (21). Tipping of the roller stem (20) relative to a main axis (7) of the pump assembly (6), along which the pump piston (11) can be actuated, is limited by an interaction of the roller stem (20) and the pump piston (11), because the cavity shape of the roller stem (20) is radially supported in a housing bore (8).

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