

Title (en)
HIGH-PRESSURE PUMP

Title (de)
HOCHDRUCKPUMPE

Title (fr)
POMPE HAUTE PRESSION

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Abstract (en)
[origin: WO2014009164A1] The invention relates to a high-pressure pump (1) for pumping a fluid, in particular fuel, for example diesel, comprising a housing (8); a driveshaft (2) with at least one cam (3); at least one piston (5); at least one cylinder (6) for bearing the at least one piston (5), said at least one piston (5) being supported indirectly on the driveshaft (2) with the at least one cam (3) such that a translational movement can be carried out by the at least one piston (5) on the basis of a rotational movement of the driveshaft (2); a lubricating chamber (40), within which the driveshaft (2) with the at least one cam (3) is arranged, for lubricating and cooling the driveshaft (2); and at least one shaft sliding bearing for bearing the driveshaft, wherein a fluidic connection is provided from a gap, in particular an annular gap, between the shaft sliding bearing and the driveshaft (2) to the lubricating chamber (40) such that the at least one shaft sliding bearing is lubricated and cooled by the lubricating fluid from the lubricating chamber (40). At least one channel is introduced into the housing (8) and/or a bearing bush (41) for the driveshaft (2) in order to additionally discharge lubricating fluid out of the lubricating chamber (40).

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