

Title (en)
HIGH PRESSURE FEED PUMP FOR INTERNAL COMBUSTION ENGINES

Title (de)
HOCHDRUCKFÖRDERPUMPE FÜR VERBRENNUNGSMOTOREN

Title (fr)
POMPE D'ALIMENTATION HAUTE PRESSION DESTINEE A DES MOTEURS A COMBUSTION INTERNE

Publication
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Application
EP 04797222 A 20041104

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Abstract (en)
[origin: WO2005052357A1] The invention relates to a high pressure feed pump (10) comprising a number of pump cylinders (12.1, 12.2) that are fixed to a housing and provided with a cylinder body (16) and admission valves (40.1, 40.2) and discharge valves arranged in the cylinder head (14). The admission valves (40.1, 40.2) of respectively two pump cylinders (12.1, 12.2), in the case of a radial piston pump, or three pump cylinders, in the case of an axial piston pump, that are respectively provided with two plungers (18.1, 18.2) moving out-of-phase in relation to each other about 180 DEG , or about 120 DEG for respectively three plungers, are mechanically interconnected by means of a pivotable rocker (42.1). The position of the rocker (42.1) is controlled by a single actuator (44.1). During the delivery stroke of a plunger (18.1, 18.2), the admission valves (40.1, 40.2) associated with the rocker (42.1) and located in an open position are closed by means of a pulse-type excitation of the actuator (44.1) and a resulting displacement of the rocker (42.1).

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