ROTARY RECIPROCATING PISTON MACHINE

ABSTRACT:

The rotary reciprocating piston engine as a rotor rotatably journaled in a housing and a plurality of pistons movable in radial direction in the rotor between outer and inner dead points. Each piston has a piston rod mounted on a transverse shaft carrying at each end a sliding element which is displaceable in radial grooves formed in the rotor on both sides of the piston. The sliding elements are each provided on the outer side thereof facing away from the piston with a pin received in a housing-fixed star-shaped endless guide groove. The guide groove extends about the axis of rotation of the rotor and controls the movement of the pistons in radial direction between the inner and outer deadpoints.

Fig. 4