

a 2002 0042

The invention relates to the mechanical engineering, in particular to the hydraulic plants and may be used in the working medium feed control systems.

The displacement pump includes a body with suction and pumping ducts and a rotor installed therein, onto which it is mounted a blade. Novelty consists in that the body cavity is made spherical and it is bound on two diametrically opposite sides by plane parallel-reciprocal surfaces. Perpendicular to the plane surfaces there is installed the rotor, onto which there are fixed two bushes, provided with flanges inclined parallel-reciprocal, oriented towards each other, between which it is formed a clearance, and onto the lateral walls of both bushes there are diametrically opposite fixed for one pair of separating plates. The blade, made in the form of disk with a packing ring onto its cylindrical surface, which comes in contact with the spherical surface of the body cavity, is freely mounted onto the rotor and placed into the clearance between the inclined flanges of the bushes. The suction and pumping ducts are made parallel to the plane surfaces of the cavity and placed pairwise so that opposite each suction duct is placed a pumping duct.

Claims: 1

Fig.: 4