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The invention relates to the hydraulic mechanical engineering and may be used in the centrifugal pumps for balancing the axial load of the rotor.

The centrifugal pump contains a body, wherein there are placed a shaft sealed about it and an impeller of the centrifugal pump, mounted onto the shaft with the possibility of axial movement, into the disk of which there are made discharge openings and onto the body and the impeller of the centrifugal pump there are made annular protrusions, arranged opposite each other, dividing the cavity between the impeller and the body into two intercommunicating chambers. Onto the body, on both ends thereof, there are fixed annular thrust plates, and the discharge openings, made into the impeller disk of open type, are arranged in front of the chamber, communicating through them with the aspiration zone of the pump. The shaft is sealed about the body by means of a bush. The body, the thrust plates, the impeller and the bush are made of antifriction material.

Claims: 3

Fig.: 1