

The invention relates to the water flow kinetic energy conversion hydraulic stations.

The hydraulic station with horizontal axle contains a bearer frame (2), placed on a floating means and in the lower part of which it is mounted a hydraulic turbine with horizontal axle (4), joined with an electric low-speed generator (11). The hydraulic turbine consists of two separate sections (5, 6), mounted on its axle (4). Each section (5, 6) includes a blade propeller, the blades (8) of which are mounted on supports, the blade propellers being displaced about each other at an angle, and each blade (8) has in normal section a hydrodynamic profile NACA. Novelty of the invention consists in that the floating means is made in the form of two floats (1), fixed on two sides of the bearer frame (2). The axle (4) of the hydraulic turbine is supported in bearings on two supports (3) fixed in the lower part of the bearer frame (2), the height of which is chosen so that the propeller may be submerged into water. Each propeller includes at least three blades (8) installed on axles (9) with the possibility of rotating around them, and their hydrodynamic profile NACA is made asymmetric. From the part of the ends of the axles the blades (8) are kinematically joined with profiled guides, rigidly fixed on the bearer frame (2) on both sides of the hydraulic turbine.

Claims: 1

Fig.: 6

