a 2008 0063

The invention relates to the hydraulic power engineering, particularly to the hydraulic stations using the kinetic energy of the water flow.

The hydraulic station comprises a platform, placed on two floats (7, 8), fixed thereto on the side of the shore, and anchored to the shore with the possibility of regulating its position about the water flow level by means of a metal framed structure and guywires (5, 6), equipped with tension regulators (9), also containing, placed on the platform and kinematically joined with each other, an electric generator (22), a hydraulic pump, a step-up gear (17) and a turbine (11), including a vertical shaft joined with the step-up gear (17) and to which there are radially fixed horizontal bars (13) with blades (12) with hydrodynamic profile. The hydraulic station is made with the possibility of its fixation to the left or right bank of the river. The turbine is fixed on the platform so that the axis of its shaft, being in the plane $O_2 - O_2$, perpendicular to the horizontal axis of symmetry of the floats $O_1 - O_1$, is displaced about the axis $O_1 - O_1$ by the value "-e", in case of fixation to the left bank of the river, and by the value "+e", in case of fixation to the right bank of the river. On the platform there are installed guides (14, 15) for orienting the blades (12) according to the water flow direction.

Claims: 2
Fig.: 4