

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

The hydraulic station contains a platform, fixed onto an abutment with the possibility of regulating its position about the water flow level, placed thereon and kinematically joined with each other, a generator 4, a step-up gear 2 and a vertically placed turbine, including a vertical bearing axis 3 joined with the step-up gear 2, supported thereon in bearings a bush 6, wherein there are radially fixed horizontal bars 7 with blades 8. Novelty consists in that the number of blades is odd, and each blade 8, the surface of which is made airfoil, is freely mounted onto the free end of each of the horizontal bars 7. The bush 6 is joined with the input gear-wheel of the step-up gear, and the output shaft of the step-up gear is joined by means of a belt transmission 12 with the electric generator 4. The station additionally includes, installed onto the vertical bearing axis 3 above the platform, a centrifugal pump 5, the suction pipe of which is placed into the central canal, made into the vertical bearing axis 3, and the pump drive is realized by means of the belt transmission 11 from the output shaft of the step-up gear 2. The device for platform fixation to the abutment contains a frame metalwork 17 and guys 18, provided with tension regulators thereof.

Claims: 2

Fig.: 4

