s 2013 0070

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

The hydraulic station comprises a platform (1), located on two floats (7), (8) and pivotally mounted on a shore pier. On the platform (1) are placed an electric generator (24), a hydraulic pump (23), a multiplier (19) and a rotor (9) with blades (13) with a hydrodynamic profile, on the periphery of which are placed guides (16), (17), (18 ). Each blade (13) is covered with a hydrodynamic shell and consisted of modules, formed of submodules with ribs. The blades (13) are provided on both sides of the shell with suction ports, placed on the height of the blades (13) in the zone of the impact edge and adjacent zone of the running edge. The suction ports are made in the form of slots interconnected on each side of the blade through separate longitudinal channels. The longitudinal channels at the end of the running edges are connected by vertical channels.

Claims: 3
Fig.: 4