

The invention relates to a floating hydraulic station with vertical rotor and is designed for the production of mechanical and electrical energy in individual farms for irrigation of fields located near rivers or for the production of electric energy, using the kinetic energy of the flowing water of rivers.

The floating hydraulic station includes a platform (1) fixed on a shore pier with the possibility of controlling its position relative to the level and direction of flow of the water and is formed of two parts: fixed (2) and rotating (5), interconnected by a joint (6) with one degree of freedom. The fixed part (2) is mounted on two floating bodies (4), pivotally connected with two degrees of freedom by a joining lever (3) to the shore pier and is equipped with four removable vertical support shafts (13). On the rotating part (5) are mounted an electric generator (10) and a hydraulic pump, a speed-increasing gear (9) and a rotor (7) with a vertical axis and horizontal bars, on which are installed blades (8) with hydrodynamic profile. The rotating part (5) is mounted on a floating body (11) and additionally linked to the fixed part (2) by a cable winch (12) for lifting the rotating part (5).

Claims: 1

Fig.: 2

