

The invention relates to the wind power conversion devices, namely to wind turbines with vertical axis.

The wind turbine with vertical axis comprises a tower (1), on which is installed a running shaft (2) with blades (3) with aerodynamic profile made obliquely, the lower ends of which are rigidly connected to the ends of the lower radial rods (4), the other ends of which are rigidly connected to the running shaft (2), and in the upper ends of the blades (3) are made grooves (6), in which are placed the hinges (5), by means of which the upper ends of the blades (3) are connected to the inertia elements (10), installed on the ends of the upper radial rods (7) with the possibility of providing the optimal angle of attack α , at the same time the other ends of the upper radial rods (7) are rigidly fixed in a bushing (9) freely installed on the running shaft (2), and the running shaft (2) is connected to a running shaft (11) of an electric generator (12) rigidly installed in a frame (13) rigidly fixed on the tower (1). In embodiment II, the lower ends of the blades (3) are connected by means of hinges (14) to the ends of the lower radial rods (4), and the bushing (9) is connected to the running shaft (2) by means of elastic elements (15).

Claims: 2

Fig.: 10

