

The invention relates to wind energy conversion devices, namely to vertical axis wind turbines.

The vertical axis wind turbine comprises a tower (1), on which is installed a vertical rotating shaft (3), one end of which is connected to a generator with permanent magnets (17), and the other end, by means of levers (6 and 9), is connected to blades (7) with aerodynamic profile, the upper part of which is rigidly connected by means of levers (6) to a sleeve (5), fixed on the shaft (3), and the lower part of the blades (7) is rigidly connected by means of levers (9) to another sleeve (8), installed on the shaft (3) with the possibility of relative deviation from the first sleeve (5), which is connected by means of hinged levers (13 and 14) and inertial elements (15), to a sleeve (10) with brake shoes (11), fixed on its upper flange. On the inner side of the hinged levers (13 and 14) are rigidly fixed elastic plate elements (16).

Claims: 1

Fig.: 7

