

The invention relates to wind-power engineering, namely to turbines with aerodynamic rotor, designed for the production of thermal energy for individual consumers.

The wind turbine comprises a mast (8), on which is placed a rotor (1) with blades (2) with an aerodynamic profile, mounted on a hub (6) in a gondola, installed with the possibility of its rotation around the axis of the mast (8) by means of tail-vane wheels (5), coupled with a drive formed of two worm gearings, as well as an energy conversion device (9), kinematically connected to the rotor (1). Each blade (2) is provided with an air suction port, placed longitudinally in the area of impact edge, and a displacing port, located in a zone adjacent to the running edge, on the reverse side of the blades (2). At the same time, the suction and displacing ports are made as slots in the shell of the blades (2), the suction and displacing ports are interconnected by an air circulation tunnel, made between the shell of the reverse side of the blade (2) and the shell equidistant from the shell of the reverse side of the blade (2).

Claims: 4

Fig.: 8

