

The invention relates to wind-power engineering, namely to wind turbines designed for individual consumers. The wind turbine comprises a rotor with blades (1) with aerodynamic profile, fixed into a gondola (2), mounted with the possibility of rotation around a mast by means of a kinematic chain consisting of two worm gearings, two tail-vane wheels, symmetrically placed on a common shaft on both sides of the gondola (2), and an electric or thermal energy generator (7), mounted between the sections of the mast. The rotor shaft (5) is kinematically connected to the shaft (6) of the energy generator (7) via a multiplier (8) with bevel gearwheels (9, 10). The output shaft (11) of the multiplier (8), rigidly connected to the bevel gearwheel (10), is connected to the shaft (6) of the energy generator (7) via a coupling (12), a torsion shaft (13) and a toroidal coupling with elastic element (14). The worm wheel of one of the worm gearings, which is meshed with the worm wheel of the tail-vane wheels, is rigidly installed on a tubular frame, fixed with a flange on the upper end of the mast. The output shaft (11) of the multiplier (8) is installed with the possibility of rotation on the journal-thrust bearings inside the tubular frame. The gondola (2) is installed by means of a self-adjustable roller bearing and a radial bearing on the outer surface of the tubular frame with the possibility of rotation around the axis of the mast.

Claims: 3

Fig.: 7

