

The invention relates to the wind power converting machines, namely to the wind turbines with Darrieus-type vertical axle.

The wind turbine with vertical axis, according to the first variant, comprises a rotary vertical shaft (1), blades (2) rigidly fixed thereto by fixing elements, each blade (2) having spiral form and aerodynamic profile in the cross-section. The fixing elements are made in the form of retaining blades (4) with aerodynamic profile and join the upper and lower ends of the turbine blades (2) with the shaft (1). At the same time the upper and lower ends of the blades (2) are articulately joined between them by horizontal tension bars (3).

The wind turbine with vertical axis, according to the second variant, comprises a vertical axle with upper and lower hubs, to which are fixed by fixing elements the blades (2). The vertical axle is made in the form of a fixed bar, on which there are installed with the possibility of free rotation the upper and lower hubs. The fixing elements join the upper and lower ends of the turbine blades (2) with the upper and lower hubs, correspondingly. The upper hub is placed with the possibility of coaxial displacement on the vertical axle.

Claims: 4

Fig.: 4

