

The inventions relates to the wind-power engineering, namely to the helical windmills.

The helical wind turbine, according to the first variant, contains a cylindrical shaft, onto which there are fixed helical blades with airfoil surface. The turbine is made narrowed to one end and may be of conic or paraboloidal shape.

The helical wind turbine (2) and the shaft (1), according to the second variant, are made narrowed to one end, the direction of their narrowing being equal, and may be of conic or paraboloidal shape.

The frontal and back parts of each blade may be cut at an angle of  $40\dots60^\circ$  about the turbine axis or made arch-shaped.

The result consists in increasing the wind power utilization factor and a more effective functioning at small speeds of the wind.

Claims: 8

Fig.: 8

