

The invention relates to power engineering, in particular to photovoltaic panel biaxial orientation systems, and can be used in the orientation of photovoltaic panels by the sun.

The photovoltaic panel biaxial orientation system comprises a photovoltaic panel (1), a shaft (2) for orientation of the photovoltaic panel (1) in the meridional plane, and a rotation mechanism, consisting of a worm reduction gearbox (3) and an electric motor (4). The photovoltaic panel (1) is pivotally connected in its middle part to the shaft (2) and kinematically to the rotation mechanism. In the lower part the photovoltaic panel (1) is pivotably connected by means of a pull rod (5) to a cylindrical sleeve (6). On the contact surface of the shaft (2) with the sleeve (6) is made a sinusoidal channel (9), in which is placed a roller (10). The pull rod (5) comprises a threaded sleeve (13), which on one side is connected to a threaded end (11) of the pull rod (5), and on the other side the sleeve (13) is connected to the opposite end (12) of the rod (5) by means of rollers (14).

Claims: 1

Fig.: 3

