

The invention relates to photovoltaic solar energy conversion installations, namely to photovoltaic installations with self-orientation in the meridional and azimuthal planes.

The installation, according to the invention, comprises a stationary tower (1) with vertical slots (2), in which are rigidly installed sunbeam concentration elements (3). Inside the stationary tower (1) is installed a corrugated tube (4), filled with gas with a high expansion coefficient during heating, the upper end of which is rigidly connected to an axle (6). On the free cylindrical surface of the axle (6) is made an inclined groove (8), in which are placed balls (9). On the inner cylindrical surface of a bushing (10) are made spherical seats, in which are placed the balls (9). The bushing (10) is connected by a one-way clutch (14) to a rotating cylinder (13), which is periodically connected by a spring-loaded ball (18) to the stationary tower (1). The rotating cylinder (13), in the upper part, is rigidly connected to a support axle (24), on which is hinged a photovoltaic panel (25). The lower end of the photovoltaic panel (25), in the middle part, is pivotally connected by a rod (26) to a cover (27), which is rigidly connected to the stationary tower (1).

Claims: 4

Fig.: 13

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