

The invention relates to systems for conversion of heat solar energy without photoelectric elements, namely to systems for solar plant orientation to the Sun.

The solar paraboloid plant orientation system includes a fixed support (1), on which it is installed the rotary part (2), on which by means of a cylindrical articulation (3) it is installed a paraboloid concentrator (4) with a sunbeam receiver (5), a sunbeam reflector (6) and a generating aggregate (7). The rotation of the paraboloid concentrator (4) in azimuth plane is carried out by a rotation mechanism, based on use of the physical effect storing the form of the elements, made of a form storage material. For inclination of the paraboloid concentration (4) in azimuth plane it is used a leverage system (8) and a cam gear, made with the possibility of transforming the rotary motion of the rotary part (2) into translation movement, multiplied by the leverage system (8) and transmitted to the paraboloid concentrator (4). In order to return the paraboloid concentrator (4) to initial position it is used a simple drive mechanism, including a single-reduction unit and an electric motor.

Claims: 2

Fig.: 11

