

The invention relates to power engineering and solar engineering, in particular to solar collectors, and can be used for heating water and generating thermal energy.

The solar collector comprises a transparent surface (2), under which at a distance, forming an air layer (3), is placed an absorber in the form of a plate (8), covered with a selective layer (9). Under the plate (8) is placed an oilcloth (10) with tubes of polymer material (11), a cold water dispenser (4) and a hot water collector (5), all being fixed in a frame (1) with thermal insulation (19). The ends of the cold water dispenser (4) and the hot water collector (5) are equipped with branch pipes (6) and (7), respectively. The oilcloth (10) is placed on a sandwich panel of heat-insulating material (12). The transparent surface (2) is fixed to the frame (1) with the help of screws (15) and corners (16). Between the corners (16) and the transparent surface (2) and between the frame (1) and the heat-insulating panel are placed spacers (17) and (18), respectively.

Claims: 3

Fig.: 2

