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The invention relates to solar power engineering and gives the possibility to raise the efficiency coefficient of the collector by increasing the coefficient of solar radiation catching.

The absorbing tubes 1 and the reflectors 2 of similar profile installed under the latter, are situated in the same plane. Each reflector consists of cylindrical surfaces (S) 3 and 4 and a flat surface S5, situated between the latter. The tubes communicate with the centre of the surface 5, and the centres 6 of the camber of S 3 and S 4 lay on the tubes surfaces. The radius of the chamber, the distance, the centre of the camber to S 5 and between the axles 7 and 8 of the tubes represent accordingly 0,91; 0,89; 2,44 of the tubes diameter. In the case of such a construction the whole surface of the tubes perceives the solar radiation, besides, a number of rays under specific angles reflect beyond the tubes, the metal consumption is reduced and the technology of reflector manufacturing is simplified.