

Title (en)  
PARABOLIC COLLECTOR

Title (de)  
PARABOL-KOLLEKTOR

Title (fr)  
COLLECTEUR PARABOLIQUE

Publication  
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Application  
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Abstract (en)  
[origin: WO2011072410A1] The invention relates to a parabolic collector (1) for concentrating solar radiation, comprising a reflecting surface (7) that approximates an ideal paraboloid and that has a number of individual collectors (5). According to the invention, individual collectors having a pressure cell (12) having a concentrator made of a flexible film (14) are provided, wherein the concentrator is curved differently in a predetermined manner in a first and in a second direction under operating pressure conditions to approximate the ideal paraboloid in such a way that the radius of curvature in the first direction is greater than the radius of curvature in the second direction. The production method for such a concentrator is characterized in that the outline of the individual collectors is designed within the footprint of the parabolic collector, wherein the true mass of the individual collectors is determined from the intersection of cylinders standing on the footprint with the paraboloid of the parabolic collector.

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