

Title (en)
ABSORBER ARRANGEMENT FOR A TROUGH COLLECTOR

Title (de)
ABSORBERANORDNUNG FÜR EINEN RINNENKOLLEKTOR

Title (fr)
SYSTÈME ABSORBEUR POUR COLLECTEUR CYLINDRO-PARABOLIQUE

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Abstract (en)

[origin: WO2014000114A2] The invention relates to an elongated absorber arrangement for a trough collector, which is exposed to concentrated radiation over its length during operation, and which has means for transporting a heat transfer fluid through the absorber arrangement. The absorber arrangement has at least one fluid-free absorber space for concentrated radiation, which has a thermal opening leading to the interior thereof and walls for absorbing the heat that is incident on it. The means for transporting the fluid have a feed-line arrangement and a discharge-line arrangement, which are operationally connected to one another by a heat exchanger arrangement through which fluid flows, wherein said heat exchanger arrangement extends over the length of the absorber arrangement, is designed for the fluid to flow through as a transverse flow in relation to the length of the absorber arrangement and is thermally connected to the at least one absorber space in such a way that the fluid is heated during operation in the transverse flow from an inlet temperature to the operating temperature and reaches the discharge-line arrangement at this temperature.

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