Title (en)

SOLAR TUBE PANEL WITH DUAL-EXPOSURE HEAT ABSORPTION

Title (de)

SOLARRÖHRENPLATTE MIT DOPPELT EXPONIERTER WÄRMEABSORPTION

Title (fr)

PANNEAU À TUBES SOLAIRES PERMETTANT UNE ABSORPTION DE CHALEUR À DOUBLE EXPOSITION

Publication

EP 2780644 A1 20140924 (EN)

Application

EP 12850357 A 20121115

Priority

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Abstract (en)

[origin: US2013118480A1] A dual-exposure heat absorption panel is disclosed, which can be used in a solar receiver design. Generally, the heat absorption panel includes a tube panel through which a heat transfer fluid is flowed to absorb solar energy from heliostats that are focused on the tube panel. A structural support frame surrounds the tube panel. A stiffener structure runs across the exposed faces of the tube panel. The headers and other support structures on the periphery are protected by use of a heat shield. Different tube couplings are possible with this structure, as well as different stiffening structures at the headers. The heat shield can be shaped to create an open space, permitting focusing of sunlight on the edge tubes as well. A curtain can be used as an additional heat shield in certain scenarios.

IPC 8 full level

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CPC (source: EP US)

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