

Title (en)
SOLAR COLLECTOR

Title (de)
SONNENKOLLEKTOR

Title (fr)
CAPTEUR SOLAIRE

Publication
EP 2118582 A1 20091118 (EN)

Application
EP 08706043 A 20080206

Priority
• AU 2008000144 W 20080206
• AU 2007900662 A 20070212
• AU 2007901492 A 20070321

Abstract (en)
[origin: US2008190413A1] A low profile solar collector collects solar energy as heat, while limiting possible peak stagnant temperatures in the collector in summer months. The collector has a plurality of reflectors, each having longitudinal edges parallel to an adjacent reflector such that the reflective elements are arranged in a fixed offset parallel array, which forms a staircase of upwardly facing reflective surfaces in use. Absorber elements are located between adjacent pairs of reflectors. The absorber elements each have an exposed surface located between each pair of reflective elements, and arranged to extend between a first edge of one reflector and a second edge of an adjacent reflector. The exposed surfaces of the absorber elements are disposed at an angle to each of the reflective elements to thereby form a fixed parallel array of exposed surfaces of the absorber elements. A transparent top cover extends over the reflective and absorber elements. In use the reflective elements are oriented in a first generally horizontal orientation such that incident sunlight passing through the top cover either falls directly onto the exposed surface of each absorber element or the incident sunlight falls a reflector adjacent to an exposed surface of one of the absorber elements and reflects onto the respective exposed surface.

IPC 8 full level
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CPC (source: EP US)
F24S 10/502 (2018.04 - EP US); **F24S 23/77** (2018.04 - EP US); **F24S 40/50** (2018.04 - EP US); **F24S 70/60** (2018.04 - EP US); **F24S 80/56** (2018.04 - EP US); **F24S 80/58** (2018.04 - EP US); **F24S 80/60** (2018.04 - EP US); **F24S 2023/832** (2018.04 - EP US); **F24S 2080/503** (2018.04 - EP US); **Y02B 10/20** (2013.01 - EP US); **Y02E 10/44** (2013.01 - EP US)

Citation (search report)
See references of WO 2008098283A1

Designated contracting state (EPC)
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