

Title (en)

SOLAR FLUX CONVERSION MODULE WITH SUPPORTED FLUID TRANSPORT

Title (de)

SOLARFLUSSUMWANDLUNGSMODUL MIT UNTERSTÜTZTEM FLUIDTRANSPORT

Title (fr)

MODULE DE CONVERSION DE FLUX SOLAIRE À TRANSPORT DE FLUIDE ASSISTÉ

Publication

**EP 3286506 A4 20181226 (EN)**

Application

**EP 16783805 A 20160420**

Priority

- US 201514691559 A 20150420
- US 2016028521 W 20160420

Abstract (en)

[origin: WO2016172266A1] In one embodiment a solar collector is provided. The collector has a modular heat transfer component, which includes a heat transfer core to heat up a heat transfer fluid in the form of an aerogel. The heat transfer core positioned comprises a light absorption element, and a fluid transfer element in the form of an aerogel. The aero gel comprises voids shaped and dimensioned to support passive pumping of the heat transfer fluid therethrough.

IPC 8 full level

**F24S 10/80** (2018.01); **F24S 10/25** (2018.01); **F24S 10/40** (2018.01); **F24S 10/60** (2018.01); **F24S 80/54** (2018.01); **F24S 80/60** (2018.01)

CPC (source: EP US)

**F03G 6/065** (2013.01 - EP); **F22B 1/006** (2013.01 - EP US); **F24S 10/25** (2018.04 - EP); **F24S 10/45** (2018.04 - EP); **F24S 10/80** (2018.04 - EP US); **F24S 10/95** (2018.04 - EP US); **F24S 23/00** (2018.04 - EP US); **F24S 23/80** (2018.04 - EP); **F24S 80/52** (2018.04 - EP US); **F24S 80/54** (2018.04 - EP US); **F24S 80/60** (2018.04 - EP); **F24S 2023/85** (2018.04 - EP); **F24S 2025/011** (2018.04 - EP); **Y02E 10/44** (2013.01 - EP); **Y02E 10/46** (2013.01 - EP)

Citation (search report)

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- [XY] WO 2014201175 A1 20141218 - MILES MARK W [US]
- [Y] WO 2011063196 A1 20110526 - MILES MARK [US]
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- [Y] WO 2007011988 A2 20070125 - ASPEN AEROGELS INC [US], et al
- See references of WO 2016172266A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2016172266 A1 20161027**; EP 3286506 A1 20180228; EP 3286506 A4 20181226

DOCDB simple family (application)

**US 2016028521 W 20160420**; EP 16783805 A 20160420