

Title (en)  
SOLAR COLLECTOR

Title (de)  
SONNENKOLLEKTOR

Title (fr)  
CAPTEUR SOLAIRE

Publication  
**EP 2315979 A2 20110504 (EN)**

Application  
**EP 09785348 A 20090716**

Priority  
• GB 2009050872 W 20090716  
• GB 0814007 A 20080731

Abstract (en)  
[origin: GB2462174A] A solar collector comprises a translucent outer panel 12, an intermediate conduit 11 for a heat exchange fluid medium 18, and an outer backing layer 13, where the backing layer is profiled or is provided with means for conduit location and support. The heat exchange fluid medium is conveniently water. Preferably, the collector is formed as a laminated sandwich construction with opposed outer panels of multi-wall sheet with internal corrugations (see figure 13C). The conduit may comprise a flexible and/or resiliently deformable thin walled pipe, wound into a spiral coil or closed compact form. The pipe may be formed from plastics material. Preferably, the collector is either configured as a flat panel (10, fig.1) or as a polygonal or curved three dimensional form, such as a cone, frusto-conical truncated shape or a pyramid. Advantageously, the solar collector is combined with a photovoltaic (PV) generation element.

IPC 8 full level  
**F24J 2/24** (2006.01); **F24S 10/70** (2018.01)

CPC (source: EP GB US)  
**F24S 10/746** (2018.04 - EP GB); **F24S 10/754** (2018.04 - EP); **F24S 20/02** (2018.04 - EP); **F24S 20/67** (2018.04 - EP);  
**F24S 25/00** (2018.04 - GB); **F24S 40/70** (2018.04 - EP); **F24S 60/30** (2018.04 - EP US); **F24S 70/60** (2018.04 - EP); **F24S 80/50** (2018.04 - GB);  
**H02S 40/44** (2014.12 - EP US); **F24S 20/04** (2018.04 - EP); **F24S 25/00** (2018.04 - EP); **F24S 30/40** (2018.04 - EP US);  
**F24S 80/30** (2018.04 - EP); **F24S 80/40** (2018.04 - EP); **F24S 2020/17** (2018.04 - EP); **F24S 2020/18** (2018.04 - EP);  
**F24S 2025/011** (2018.04 - EP); **F24S 2080/502** (2018.04 - EP); **Y02A 30/60** (2017.12 - EP); **Y02B 10/20** (2013.01 - EP);  
**Y02E 10/44** (2013.01 - EP); **Y02E 10/47** (2013.01 - EP); **Y02E 10/50** (2013.01 - EP); **Y02E 10/60** (2013.01 - EP)

Citation (search report)  
See references of WO 2010013028A2

Designated contracting state (EPC)  
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 SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**GB 0912371 D0 20090826**; **GB 2462174 A 20100203**; EP 2315979 A2 20110504; GB 0814007 D0 20080910; WO 2010013028 A2 20100204;  
WO 2010013028 A3 20110224

DOCDB simple family (application)  
**GB 0912371 A 20090716**; EP 09785348 A 20090716; GB 0814007 A 20080731; GB 2009050872 W 20090716