

Title (en)
TEXTILE BASED SOLAR COLLECTOR

Title (de)
SONNENKOLLEKTOR AUF TEXTILBASIS

Title (fr)
COLLECTEUR SOLAIRE À BASE DE TEXTILE

Publication
EP 2419681 A2 20120222 (EN)

Application
EP 10706803 A 20100205

Priority
• TR 2010000031 W 20100205
• TR 200901114 A 20090216

Abstract (en)
[origin: WO2010093339A2] By the flowing process of a proper heat transfer fluid with a boiling temperature of above 120 °C through a back coated (3) or specially constructed black textile surface (4) placed in a solar collector box, the heating of the heat transfer fluid up to temperatures above 100 °C can be provided without any problems such as evaporation, steaming up of the front glass pane, condensation, calcification of the textile surface (fabric), etc. In order to heat water or air, the hot heat transfer fluid from the collector outlet (7) passes through a liquid/liquid (10) or a liquid/gas (10) heat exchanger, respectively. The warm heat transfer fluid from the heat exchanger outlet (12) is pumped by a proper pump (9) to the inlet of the perforated or cleft pipe (6) to complete the recirculation route.

IPC 8 full level
F24S 10/60 (2018.01); **F24S 10/80** (2018.01)

CPC (source: EP US)
F24S 10/60 (2018.04 - EP US); **F24S 10/95** (2018.04 - EP US); **F24S 80/20** (2018.04 - EP); **F24S 2080/016** (2018.04 - EP); **Y02E 10/44** (2013.01 - EP)

Citation (search report)
See references of WO 2010093339A2

Cited by
CN114835183A

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

DOCDB simple family (publication)
WO 2010093339 A2 20100819; **WO 2010093339 A3 20101111**; EP 2419681 A2 20120222; TR 200901114 A2 20091123; TR 201107851 T1 20120123

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