

Title (en)
A SOLAR ENERGY COLLECTING SYSTEM

Title (de)
SONNENKOLLEKTOR

Title (fr)
SYSTEME DE COLLECTE D'ENERGIE SOLAIRE

Publication
EP 2379952 A1 20111026 (EN)

Application
EP 09836165 A 20091223

Priority
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• US 14102208 P 20081229

Abstract (en)
[origin: WO2010076754A1] A solar energy collecting system arranged to gradually and stepwise heat a thermal fluid in thermal receivers, interconnected via an insulated tube and configured in parallel serially connected subgroups. The receivers are heated by optical elements arranged to reflect solar radiation upon the receivers, aligned according to specified temporal-spatial patterns, relating to the terrain and the solar motion. Receivers and optical elements may be positioned at specified locations and heights that maximize the energy yield. The configuration of the receivers and the optical elements may be adapted to storage and transport requirements. The system is highly modular and efficient in energy production and storage.

IPC 8 full level
F24J 2/00 (2014.01); **F24S 20/20** (2018.01); **F24S 23/70** (2018.01); **F24S 23/79** (2018.01); **F24S 50/20** (2018.01); **F24S 90/00** (2018.01); **F24J 2/04** (2006.01); **F24J 2/46** (2006.01); **F24J 2/54** (2006.01)

CPC (source: EP US)
F24S 20/20 (2018.04 - EP US); **F24S 23/70** (2018.04 - EP US); **F24S 23/79** (2018.04 - EP US); **F24S 30/40** (2018.04 - EP US); **F24S 80/30** (2018.04 - EP US); **F24S 90/00** (2018.04 - EP US); **F24S 40/20** (2018.04 - EP US); **F24S 2020/186** (2018.04 - EP US); **Y02E 10/40** (2013.01 - US); **Y02E 10/47** (2013.01 - EP US)

Designated contracting state (EPC)
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DOCDB simple family (application)
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