

Title (en)
SOLAR ENERGY RECEIVER

Title (de)
SOLARENERGIEEMPFÄNGER

Title (fr)
CAPTEUR D'ÉNERGIE SOLAIRE

Publication
EP 2171367 A1 20100407 (EN)

Application
EP 08768175 A 20080606

Priority
• US 2008007098 W 20080606
• US 93362007 P 20070606

Abstract (en)
[origin: WO2008153922A1] Receivers for use in solar energy collector systems and solar-powered electrical energy generating plants are provided. The receivers (400) comprise a solar radiation absorbing core (414) that converts absorbed solar radiation to thermal energy. The core (414) comprises a refractory material to allow the receivers to operate continuously at high temperatures reached by absorbing concentrated solar radiation. The thermal energy so generated in the core may be stored in the receiver for a transitory period, or for a more extended period. Receivers (400) may comprise one or more fluid channels (415) in and/or around the core for conveying a working fluid to facilitate extraction of stored thermal energy from the core.

IPC 8 full level
F24J 2/07 (2006.01); **F24J 2/48** (2006.01); **F24S 20/20** (2018.01)

CPC (source: EP US)
F24S 20/20 (2018.04 - EP); **F24S 40/52** (2018.04 - EP); **F24S 60/10** (2018.04 - EP US); **F24S 70/16** (2018.04 - EP US);
Y02E 10/40 (2013.01 - EP)

Citation (search report)
See references of WO 2008153922A1

Citation (examination)
• US 6065284 A 20000523 - HORNER MERVYN H [US], et al
• US 5994681 A 19991130 - LLOYD ROBERT [AU]
• US 5128115 A 19920707 - GLATZMAIER GREGORY C [US]
• US 2004163697 A1 20040826 - PAPADOPOULOS ALEXANDROS [GR]

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
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CN 101802511 B 20131009; EP 2171367 A1 20100407; EP 2492609 A1 20120829; ZA 201000037 B 20110525

DOCDB simple family (application)
US 2008007098 W 20080606; AU 2008262380 A 20080606; CN 200880101997 A 20080606; EP 08768175 A 20080606;
EP 12168701 A 20080606; ZA 201000037 A 20100104