

Title (en)

Heat exchanger for creating steam for solar power plants

Title (de)

Wärmetauscher zur Dampferzeugung für Solarkraftwerke

Title (fr)

Echangeur thermique pour la production de vapeur pour les centrales solaires

Publication

EP 2322854 B1 20130904 (DE)

Application

EP 09014365 A 20091117

Priority

EP 09014365 A 20091117

Abstract (en)

[origin: EP2322854A1] The heat exchanger has inlet- and outlet collectors (6, 7) for heat-absorbing medium i.e. water, and arranged within an outer casing (2). A meander-like tube bundle (11) has tube layers comprising tubes around which heat-emitting medium completely circulates. The heat exchanger is designed according to forced flow circulation principle so that the heat-absorbing medium is preheated, evaporated and overheated in course of melt flow path, where energy required for preheating, evaporation and overheating is provided by exchange of heat from the heat emitting medium to the heat-absorbing medium.

IPC 8 full level

F22B 29/06 (2006.01); **F24V 30/00** (2018.01); **F28D 7/08** (2006.01); **F28F 9/18** (2006.01)

CPC (source: EP KR US)

F22B 29/06 (2013.01 - EP KR US); **F22B 29/061** (2013.01 - EP US); **F22B 29/062** (2013.01 - EP US); **F28D 7/08** (2013.01 - EP KR US); **F28D 7/087** (2013.01 - EP US); **F28F 9/185** (2013.01 - EP US)

Cited by

WO2020069704A1; CN105651077A; EP3056846A1; US11150037B2; WO2020253924A1; US11739931B2

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)

EP 2322854 A1 20110518; EP 2322854 B1 20130904; AU 2010321334 A1 20120614; AU 2010321334 B2 20151203; CN 102667338 A 20120912; CN 102667338 B 20150211; ES 2435550 T3 20131220; KR 20120117748 A 20121024; MA 33812 B1 20121203; PT 2322854 E 20130912; US 2013112156 A1 20130509; WO 2011060870 A1 20110526; ZA 201203459 B 20130131

DOCDB simple family (application)

EP 09014365 A 20091117; AU 2010321334 A 20101025; CN 201080052149 A 20101025; EP 2010006512 W 20101025; ES 09014365 T 20091117; KR 20127013213 A 20101025; MA 34955 A 20120611; PT 09014365 T 20091117; US 201013510374 A 20101025; ZA 201203459 A 20120511