

Title (en)
THERMAL ENERGY STORAGE DEVICE

Title (de)
SPEICHERVORRICHTUNG FÜR WÄRMEENERGIE

Title (fr)
DISPOSITIF DE STOCKAGE D'ENERGIE THERMIQUE

Publication
EP 2318779 A2 20110511 (EN)

Application
EP 09795271 A 20090710

Priority
• US 2009050335 W 20090710
• US 7978708 P 20080710

Abstract (en)
[origin: WO2010006319A2] A thermal energy storage ("TES") device including a vessel housing a continuous volume of a TES media, an input portion, an output portion, and a plurality of thermal energy transport members connected to the input portion and/or the output portion. The input portion receives thermal energy from a thermal energy source. The received thermal energy is transported by one or more of the thermal energy transport members to the output portion and/or the TES media for storage. One or more of the thermal energy transport members connected to the output portion transport stored thermal energy from the TES media to the output portion. The output portion is coupled to an external device, such as a Stirling engine, and configured to transfer thermal energy the external device. Optionally, selected ones of the thermal energy transport members connected to both the input and output portions may be insulated from the TES media.

IPC 8 full level
F02G 1/04 (2006.01); **F03G 6/06** (2006.01); **F24J 2/00** (2006.01); **F24J 2/34** (2006.01); **F24S 90/00** (2018.01)

CPC (source: EP US)
F03G 6/06 (2013.01 - EP); **F03G 6/068** (2013.01 - US); **F24S 20/20** (2018.05 - EP US); **F24S 60/10** (2018.05 - EP US); **F24S 90/00** (2018.05 - EP US); **F28D 20/02** (2013.01 - EP US); **F28D 2020/0047** (2013.01 - EP US); **Y02E 10/40** (2013.01 - US); **Y02E 10/46** (2013.01 - EP US); **Y02E 60/14** (2013.01 - EP US)

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)
WO 2010006319 A2 20100114; **WO 2010006319 A3 20100408**; CN 102149987 A 20110810; EP 2318779 A2 20110511; US 2010212656 A1 20100826

DOCDB simple family (application)
US 2009050335 W 20090710; CN 200980135520 A 20090710; EP 09795271 A 20090710; US 50139609 A 20090710