

Title (en)

METHODS AND APPARATUS FOR THERMAL ENERGY STORAGE CONTROL OPTIMIZATION

Title (de)

VERFAHREN UND VORRICHTUNG ZUR OPTIMIERTEN STEUERUNG EINER WÄRMEENERGIESPEICHERUNG

Title (fr)

PROCÉDÉS ET APPAREIL POUR L'OPTIMISATION DU CONTRÔLE DE STOCKAGE DE L'ÉNERGIE THERMIQUE

Publication

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Application

EP 12847282 A 20121016

Priority

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Abstract (en)

[origin: WO2013070396A1] Concentrating solar power (CSP) systems and methods are disclosed featuring the use of a solid-liquid phase change heat transfer material (HTM). The systems and methods include a solar receiver configured to receive concentrated solar flux to heat a quantity of the solid HTM and cause a portion of the solid HTM to melt to a liquid HTM. The systems and methods also include a heat exchanger in fluid communication with the solar receiver. The heat exchanger is configured to receive liquid HTM and provide for heat exchange between the liquid HTM and the working fluid of a power generation block. The heat exchanger further provides for the solidification of the liquid HTM. The systems and methods also include a material transport system providing for transportation of the solidified HTM from the heat exchanger to the solar receiver.

IPC 8 full level

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