

Title (en)

METHOD AND SYSTEM FOR TRANSPORTING THERMAL ENERGY IN A STORAGE MEDIUM

Title (de)

VERFAHREN UND SYSTEM ZUM TRANSPORT VON THERMISCHER ENERGIE IN EINEM SPEICHERMEDIUM

Title (fr)

PROCÉDÉ ET SYSTÈME POUR TRANSPORTER DE L'ÉNERGIE THERMIQUE DANS UN MILIEU DE STOCKAGE

Publication

**EP 4265994 A1 20231025 (EN)**

Application

**EP 22169252 A 20220421**

Priority

EP 22169252 A 20220421

Abstract (en)

The present invention relates to a method for transporting thermal energy in a storage medium via a sea route, the method comprising the following steps in the given order a) receiving solar energy; b) converting the received solar energy to thermal energy using a first conversion station; c) storing the thermal energy in a storage medium by heating the storage medium; d) placing the heated storage medium in one or more containers comprised by a movable unit and moving the movable unit from a first location to a second location via a sea route; e) at the second location, converting the thermal energy in the heated storage medium to electrical energy using a second conversion station or supplying the thermal energy in the heated storage medium to a user.

IPC 8 full level

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CPC (source: EP)

**F28D 20/0043** (2013.01); **F28D 2020/0026** (2013.01)

Citation (applicant)

- DE 102019108392 A1 20201001 - NEBUMA GMBH [DE]
- WO 2016081944 A1 20160526 - JOHNSON RICHARD LEE [US], et al
- DE 202021101305 U1 20210723 - TIEGEL GMBH [DE]

Citation (search report)

- [IY] US 2019310027 A1 20191010 - PIETSCH ANTON [US], et al
- [YD] DE 102019108392 A1 20201001 - NEBUMA GMBH [DE]
- [Y] CN 203797986 U 20140827 - DALIAN GREAT OCEAN NEW ENERGY DEV CO LTD
- [A] DE 202021101305 U1 20210723 - TIEGEL GMBH [DE]
- [A] US 2016146507 A1 20160526 - JOHNSON RICHARD LEE [US], et al

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