

Title (en)

THERMAL ENERGY STORAGE DEVICE

Title (de)

WÄRMEENERGIESPEICHERVORRICHTUNG

Title (fr)

DISPOSITIF DE STOCKAGE D'ÉNERGIE THERMIQUE

Publication

EP 4078061 A1 20221026 (EN)

Application

EP 21701906 A 20210113

Priority

- EP 20156951 A 20200212
- EP 2021050554 W 20210113

Abstract (en)

[origin: EP3865804A1] A thermal energy storage (100) for a thermal energy storage plant comprising a hollow housing (110) a granular material (120) for storing heat housed in the hollow housing (110). At least a storage grate (20) retains the granular material (120) inside the hollow housing (110), the storage grate (20) extending between a first end (11) and a second end (12), the first end (11) being closer to the bottom side (114) than to the top side (113), the storage grate (20) including at least a first grate section (20a) including the first end (11) and a second grate section (20b) including the second end (12), each grate section (20a, 20b) of the storage grate (20) comprises at least a first plurality of struts (51, 41, 42), the struts (51, 41, 42) being configured and arranged in each grate section (20a, 20b) in such a way that the mechanical strength of the first grate section (20a) is higher than the mechanical strength of the second grate section (20b).

IPC 8 full level

F28D 20/00 (2006.01)

CPC (source: EP)

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Citation (search report)

See references of WO 2021160360A1

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DOCDB simple family (publication)

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