

Title (en)

METHOD FOR STORING THERMAL ENERGY, HEAT RESERVOIR, AND STEAM POWER PLANT

Title (de)

VERFAHREN ZUR SPEICHERUNG VON WÄRMEENERGIE, WÄRMESPEICHER UND DAMPFKRAFTWERK

Title (fr)

PROCÉDÉ POUR STOCKER DE L'ÉNERGIE THERMIQUE, RÉSERVOIR THERMIQUE ET CENTRALE THERMIQUE À VAPEUR

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Application

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Abstract (en)

[origin: WO2018085872A1] The invention relates to a method and a heat reservoir (1) for storing thermal energy, comprising the steps of: - arranging a bed (8) in a first storage vessel (9); - conveying the bed from the first storage vessel (10) into a fluidised bed module (7); - fluidising the bed (8) in the fluidised bed module (7); - exchanging heat between the bed (8) in its fluidised state and a first fluid flow inside a first heat exchange element (20); - and conveying the bed (8) from the fluidised bed module (7) into the second storage vessel (10), wherein - said bed (8) comprises micro-capsules (17) that have a phase change material (18).

IPC 8 full level

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