

Title (en)

HEAT ACCUMULATOR FOR STORING THERMAL ENERGY AND METHOD FOR SHIFTING THERMAL ENERGY IN A HEAT ACCUMULATOR

Title (de)

WÄRMESPEICHER ZUR SPEICHERUNG VON WÄRMEENERGIE UND VERFAHREN ZUR UMSCHICHTUNG VON WÄRMEENERGIE IN EINEM WÄRMESPEICHER

Title (fr)

ACCUMULATEUR DE CHALEUR POUR L'ACCUMULATION D'ÉNERGIE THERMIQUE ET PROCÉDÉ DE DÉPLACEMENT D'ÉNERGIE THERMIQUE DANS UN ACCUMULATEUR DE CHALEUR

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Application

EP 08839353 A 20081020

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Abstract (en)

[origin: WO2009049612A2] The invention relates to a heat accumulator for storing thermal energy, comprising a storage container (4) for receiving a storage fluid, which can be stored as a function of the temperature thereof in different, superposed zones (4.1, 4.3, 4.5) of the storage container (4), wherein a heat pump (2) is provided, which is disposed between a lower zone (4.1) and a higher zone (4.3, 4.5) for shifting thermal energy from the lower zone (4.1) into the higher zone (4.3, 4.5). Another object of the invention is a method for shifting thermal energy in a heat accumulator, comprising a storage container (4) for receiving a storage fluid, which can be stored as a function of the temperature thereof in different, superposed zones (4.1, 4.3, 4.5) of the storage container (4), wherein a heat pump (2) delivers thermal energy from a lower zone (4.1) into a higher zone (4.3, 4.5).

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