

Title (en)

Method for converting and storing regenerative energy

Title (de)

Verfahren zur Umwandlung und Speicherung von regenerativer Energie

Title (fr)

Procédé de transformation et de stockage d'énergie régénérative

Publication

EP 2067942 A3 20110209 (DE)

Application

EP 08015809 A 20080909

Priority

DE 102007045888 A 20070925

Abstract (en)

[origin: DE102007045888A1] The method involves streaming pressure in a pressure reservoir (4), and pressing a vaporous operating medium i.e. carbon dioxide, in the pressure reservoir using a pump (2). A surface is indirectly cooled and condensed by a storage medium i.e. water, before the surface is heated by indirect supply of heat to the storage medium or a heat carrier, and the surface is guided in the pressure reservoir. The storage medium is evaporated by indirect supply of heat to the storage medium, where the storage medium ensures evaporation by heat transmission at the vaporous operating medium.

IPC 8 full level

F01K 25/10 (2006.01); **F01K 1/14** (2006.01); **F01K 3/12** (2006.01)

CPC (source: EP)

F01K 1/14 (2013.01); **F01K 3/12** (2013.01); **F01K 25/10** (2013.01); **F01K 25/103** (2013.01)

Citation (search report)

- [A] DE 2204483 A1 19730809 - MCALISTER ROY E
- [A] DE 102006007119 A1 20070823 - WOLF BODO M [DE]

Cited by

DE102014002678B4; CN107101408A; DE102012021909B4; DE102013006725B4; CN113454313A; DE102012021909A1; DE102013015137A1; DE102013006725A1; DE102015005345A1; WO2016173705A3; DE102014002678A1; WO2015128049A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

DE 102007045888 A1 20090402; **DE 102007045888 B4 20100415**; EP 2067942 A2 20090610; EP 2067942 A3 20110209; EP 2067942 B1 20120829

DOCDB simple family (application)

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