

Title (en)
ENERGY STORAGE SYSTEM AND METHOD

Title (de)
ENERGIESPEICHERSYSTEM UND -VERFAHREN

Title (fr)
SYSTÈME ET PROCÉDÉ DE STOCKAGE D'ÉNERGIE

Publication
EP 3078817 A1 20161012 (EN)

Application
EP 15162830 A 20150408

Priority
EP 15162830 A 20150408

Abstract (en)
There is described a system for storing energy, the system comprising (a) a thermal storage (110) for storing thermal energy, the thermal storage comprising a first opening (112) and a second opening (114), and (b) a steam generator (120) comprising a fluid input (122) and a fluid output (124), the fluid input (122) being in fluid communication with the first opening (112) of the thermal storage (110) and the fluid output (124) being in fluid communication with the second opening (114) of the thermal storage (110), wherein the thermal storage (110) is adapted to receive a working fluid from a thermal energy source at the first opening (112) during a charging phase, wherein the thermal storage (110) is adapted to output the working fluid through the first opening (112) for transportation to the fluid input (122) of the steam generator (120) during a discharging phase, and wherein the steam generator (120) is adapted to heat a steam turbine fluid using the working fluid received at the fluid input (122) and to output the used working fluid through the fluid output (124) for transportation to the second opening (114) of the thermal storage (110), such that thermal energy remaining in the output working fluid is injected into the thermal storage (110) through the second opening (114). Further, there is described a power plant and a method of storing energy.

IPC 8 full level
F01K 3/00 (2006.01); **F01K 25/08** (2006.01)

CPC (source: EP)
F01K 3/00 (2013.01); **F01K 25/08** (2013.01)

Citation (search report)

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Designated contracting state (EPC)
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