

Title (en)

Pressure storage device whereby the heat storage device is placed inside an overpressure zone

Title (de)

Druckspeicherkraftwerk wobei der Wärmespeicher in einer Überdruckzone angeordnet ist

Title (fr)

Dispositif de stockage de pression dans lequel le dispositif de stockage thermique est situé dans une zone de surpression

Publication

EP 2823247 A1 20150114 (DE)

Application

EP 13712126 A 20130307

Priority

- CH 3102012 A 20120307
- CH 2013000039 W 20130307

Abstract (en)

[origin: WO2013131202A1] The invention relates to a compressed air energy storage system comprising a pressure accumulator (2) for gas to be stored under pressure, and a heat accumulator (27) for storing the compression heat that has accumulated during charging of the pressure accumulator (2), wherein the heat accumulator (27) is arranged ready for use in an overpressure zone (31). Said arrangement enables a structurally simple heat accumulator to be provided, since said heat accumulator is not loaded by the pressure of the gas passing therethrough.

IPC 8 full level

F02C 1/05 (2006.01); **F02C 6/14** (2006.01); **F02C 6/16** (2006.01); **F28D 20/00** (2006.01)

CPC (source: EP US)

F02C 1/05 (2013.01 - US); **F02C 6/14** (2013.01 - EP US); **F02C 6/16** (2013.01 - EP US); **F15B 1/024** (2013.01 - US); **F28D 20/00** (2013.01 - US); **F28D 20/0056** (2013.01 - EP US); **F17C 2221/031** (2013.01 - EP US); **F17C 2223/0123** (2013.01 - EP US); **F17C 2223/035** (2013.01 - EP US); **F17C 2260/046** (2013.01 - EP US); **F17C 2270/0149** (2013.01 - EP US); **F17C 2270/0581** (2013.01 - EP US); **F28D 2020/0082** (2013.01 - EP US); **Y02E 60/14** (2013.01 - EP US); **Y02E 60/16** (2013.01 - EP US)

Citation (search report)

See references of WO 2013131202A1

Designated contracting state (EPC)

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2013131202 A1 20130912; CH 706202 A1 20130913; CL 2014002346 A1 20150327; CN 104395684 A 20150304; CN 104395684 B 20171205; EP 2823247 A1 20150114; US 10450953 B2 20191022; US 2015096289 A1 20150409; ZA 201406480 B 20160831

DOCDB simple family (application)

CH 2013000039 W 20130307; CH 3102012 A 20120307; CL 2014002346 A 20140904; CN 201380024043 A 20130307; EP 13712126 A 20130307; US 201314382486 A 20130307; ZA 201406480 A 20140903