

Title (en)
HEAT ACCUMULATOR SYSTEM

Title (de)
WÄRMESPEICHERSYSTEM

Title (fr)
SYSTÈME ACCUMULATEUR DE CHALEUR

Publication
EP 3532789 A1 20190904 (DE)

Application
EP 17794697 A 20171024

Priority
• DE 102016120664 A 20161028
• EP 2017077102 W 20171024

Abstract (en)
[origin: WO2018077842A1] The invention relates to a heat accumulator system (10) for accumulating thermal energy, comprising: a solid accumulator (12) having a plurality of accumulator blocks (14), which have outer faces (58) arranged with respect to each other, wherein the accumulator blocks (14) have at least one through-opening (16) arranged in the longitudinal direction and/or have at least one recess (18) formed in the longitudinal direction on the outer face (58) of the accumulator blocks and are arranged with respect to each other in such a way that at least one channel (20) having an inlet opening (22) and an outlet opening (24) arranged at a distance from the inlet opening (22) is formed by the recess (18) and/or the through-opening (16), a heat transfer medium, which is in direct contact with the channel (20) at least in sections, a charging circuit (32) having a first supply device (36) connected to the inlet opening (22) of the channel (20) for supplying thermally charged heat transfer medium and having a first removal device (38) connected to the outlet opening (24) for balancing out the supplied heat transfer medium, and/or a discharging circuit (34) having a second removal device (46) connected to the inlet opening (22) of the channel (20) for leading away the thermally charged heat transfer medium and having a second supply device (48) connected to the outlet opening (24) for balancing out the heat transfer medium that is led away.

IPC 8 full level
F28D 20/00 (2006.01)

CPC (source: EP US)
F28D 20/0056 (2013.01 - EP US); **F28D 2020/0065** (2013.01 - EP US); **Y02E 60/14** (2013.01 - EP US)

Citation (search report)
See references of WO 2018077842A1

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 2018077842 A1 20180503; CA 3041398 A1 20180503; DE 102016120664 A1 20180517; EP 3532789 A1 20190904;
US 2019249932 A1 20190815

DOCDB simple family (application)
EP 2017077102 W 20171024; CA 3041398 A 20171024; DE 102016120664 A 20161028; EP 17794697 A 20171024;
US 201716345832 A 20171024