Title (en)

ENERGY STORAGE PACK

Title (de)

ENERGIESPEICHERPACK

Title (fr)

BLOC DE STOCKAGE D'ÉNERGIE

Publication

EP 3583654 A1 20191225 (EN)

Application

EP 18702810 A 20180119

Priority

- US 201715437228 A 20170220
- IB 2018050344 W 20180119

Abstract (en)

[origin: WO2018150279A1] An energy storage pack includes a coolant inlet manifold, a coolant outlet manifold, and a plurality of thermal-exchange tubes extending between the coolant inlet manifold and the coolant outlet manifold to exchange heat between coolant passing through the plurality of thermal-exchange tubes and a plurality of battery cells mounted adjacent to and among the plurality of thermal-exchange tubes within the energy storage pack. In one embodiment, at least one of coolant inlet manifold and the coolant outlet manifold includes a plurality of thermal-exchange tube terminating structures and a plurality of hose segments intercoupling the plurality of thermal-exchange tube terminating structures. The energy storage pack may further include a coolant inlet opening located on the coolant inlet manifold and a coolant outlet opening located on the coolant outlet manifold.

IPC 8 full level

H01M 10/60 (2014.01); **H01M 10/6556** (2014.01); **H01M 50/213** (2021.01)

CPC (source: EP KR US)

H01G 2/08 (2013.01 - EP KR); **H01G 11/10** (2013.01 - EP KR); **H01G 11/18** (2013.01 - EP KR); **H01M 10/613** (2015.04 - KR); **H01M 10/615** (2015.04 - KR); **H01M 10/643** (2015.04 - KR); **H01M 10/6556** (2015.04 - EP KR); **H01M 50/20** (2021.01 - KR); **H01M 50/213** (2021.01 - EP US); H01M 10/613 (2015.04 - EP); H01M 10/615 (2015.04 - EP); H01M 10/643 (2015.04 - EP); Y02E 60/10 (2013.01 - KR)

Citation (search report)

See references of WO 2018150279A1

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 2018150279 A1 20180823; CN 110313100 A 20191008; CN 110313100 B 20220812; EP 3583654 A1 20191225; JP 2020508545 A 20200319; JP 6923664 B2 20210825; KR 102268725 B1 20210624; KR 102292216 B1 20210824; KR 20190116483 A 20191014; KR 20210076212 A 20210623

DOCDB simple family (application)

IB 2018050344 W 20180119; CN 201880012724 A 20180119; EP 18702810 A 20180119; JP 2019544814 A 20180119; KR 20197027578 A 20180119; KR 20217018701 A 20180119