

Title (en)
THERMAL RUNAWAY DETECTION SYSTEMS FOR BATTERIES WITHIN ENCLOSURES AND METHODS OF USE THEREOF

Title (de)
SYSTEME ZUR DETEKTION VON THERMISCHEM DURCHGEHEN FÜR BATTERIEN IN GEHÄUSEN UND VERFAHREN ZUR VERWENDUNG DAVON

Title (fr)
SYSTÈMES DE DÉTECTION D'EMBALLLEMENT THERMIQUE DESTINÉS À DES BATTERIES DANS DES BOÎTIERS ET PROCÉDÉS D'UTILISATION CORRESPONDANTS

Publication
EP 4214789 A1 20230726 (EN)

Application
EP 21870138 A 20210915

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• US 2021050471 W 20210915

Abstract (en)
[origin: WO2022060845A1] A battery thermal runaway detection sensor system for use within a battery enclosure housing one or more batteries. The system has at least one gas sensor for detecting a venting condition of a battery cell and providing a sensed output in real time. A microcontroller determines power management and signal conditioned output on the concentration of specific battery venting gases based on the sensed output from said at least one gas sensor. Methods of using such sensor systems are also described.

IPC 8 full level
H01M 10/48 (2006.01); **G01R 31/382** (2019.01); **H02J 7/00** (2006.01); **H02J 7/02** (2016.01); **H02J 7/04** (2006.01)

CPC (source: EP KR)
G01R 31/392 (2018.12 - EP KR); **H01M 10/4228** (2013.01 - KR); **H01M 10/48** (2013.01 - EP KR); **H02J 7/0029** (2013.01 - KR); **H02J 7/0047** (2013.01 - EP KR); **H02J 7/00719** (2020.01 - EP KR); **H02J 7/0029** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP KR)

Citation (search report)
See references of WO 2022060845A1

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BA ME

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KH MA MD TN

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