

Title (en)
CONFORMAL WEARABLE BATTERY

Title (de)
KONFORME WEARABLE-BATTERIE

Title (fr)
BATTERIE PORTABLE CONFORME

Publication
EP 4222807 A1 20230809 (EN)

Application
EP 21876138 A 20210315

Priority

- US 202017038287 A 20200930
- US 202017085864 A 20201030
- US 202017085873 A 20201030
- US 202017085928 A 20201030
- US 202017086132 A 20201030
- US 2021022377 W 20210315

Abstract (en)
[origin: WO2022071986A1] A molded housing of a conformal wearable battery (CWB) encloses an electronic component and include an electrically conductive contact component embedded within an exterior wall to conduct electricity between an interior and an exterior of the casing. A flexible printed circuit board assembly (PCBA) for a conformal wearable battery (CWB) is enclosed in a cavity within the molded housing and includes attachment sections for a plurality of battery cells that are arranged in a grid-like pattern on a same side of the flexible PCBA. A visco-elastic shock-absorbing member installed between the upper and lower portion of the flexible PCBA when configured in a folded configuration. Each battery cell is joined to the flexible PCBA via a welding process. Each battery cell has a visco-elastic shock-absorbing member attached individually to each battery cell of the plurality of battery cells. When folded to fit within the cavity of the molded housing, the flexible PCBA forms a three-dimensional grid of physical components comprising at least the battery cell modules.

IPC 8 full level
H01M 50/20 (2021.01); **H01M 10/0583** (2010.01); **H01M 50/502** (2021.01); **H05K 1/02** (2006.01)

CPC (source: EP)
H01M 50/209 (2021.01); **H01M 50/242** (2021.01); **H01M 50/256** (2021.01); **H01M 50/284** (2021.01); **H01M 50/519** (2021.01); **H05K 1/028** (2013.01); **H05K 1/189** (2013.01); **H05K 2201/055** (2013.01); **H05K 2201/10037** (2013.01); **Y02E 60/10** (2013.01); **Y02P 70/50** (2015.11)

Citation (search report)
See references of WO 2022071986A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022071986 A1 20220407; EP 4222807 A1 20230809

DOCDB simple family (application)
US 2021022377 W 20210315; EP 21876138 A 20210315