

Title (en)  
CELL WITH ELECTRIC ENERGY STORAGE DEVICE AND HOUSING

Title (de)  
ZELLE MIT ELEKTRISCHEM ENERGIESPEICHER UND GEHÄUSE

Title (fr)  
ÉLÉMENT À ACCUMULATEUR D'ÉNERGIE ÉLECTRIQUE ET BOÎTIER

Publication  
**EP 3994758 A1 20220511 (DE)**

Application  
**EP 20737140 A 20200703**

Priority  
• DE 102019118160 A 20190704  
• EP 2020068861 W 20200703

Abstract (en)  
[origin: WO2021001545A1] The invention relates to a cell (1) with an electric energy storage device (2) and a hollow cylindrical housing (3), wherein the electric energy storage device (2) is arranged in the housing (3), and the housing (3) seals the electric energy storage device (2). The electric energy storage device (2) has a first energy storage device pole (12) and a second energy storage device pole (13), and the housing (3) has an outer casing (4), an inner casing (5), a first cap (6), and a second cap (7). The aim of the invention is to provide a temperature control system for the cell (1), said temperature control system keeping the electric energy storage device (2) in a specified temperature range. This is achieved in that a first electric cell conductor (8) is formed by the inner casing (5) and the first cap (6), and a second electric cell conductor (9) is formed by the outer casing (4) and the second cap (7); the first energy storage device pole (12) and the inner casing (5) are electrically connected together, and the second energy storage device pole (13) and the outer casing (4) are electrically connected together; the inner casing (5) has a first socket (10) on the first cap (6) and a second socket (11) on the second cap (7) for plugs (15, 16) of a cell connector (14, 18); and the housing (3) is designed such that a medium for controlling the temperature of the cell (1) can be received in the inner casing (5).

IPC 8 full level  
**H01M 50/10** (2021.01); **H01G 9/08** (2006.01); **H01G 11/78** (2013.01); **H01M 10/052** (2010.01); **H01M 10/0525** (2010.01); **H01M 10/054** (2010.01); **H01M 10/613** (2014.01); **H01M 10/615** (2014.01); **H01M 10/643** (2014.01); **H01M 10/647** (2014.01); **H01M 10/654** (2014.01); **H01M 10/6567** (2014.01); **H01M 50/147** (2021.01); **H01M 50/172** (2021.01); **H01M 50/176** (2021.01); **H01M 50/179** (2021.01); **H01M 50/30** (2021.01); **H01M 50/50** (2021.01); **H01M 50/503** (2021.01); **H01M 50/51** (2021.01); **H01M 50/512** (2021.01)

CPC (source: EP US)  
**H01G 11/26** (2013.01 - EP); **H01G 11/82** (2013.01 - EP); **H01M 10/052** (2013.01 - EP); **H01M 10/0525** (2013.01 - EP); **H01M 10/054** (2013.01 - EP); **H01M 10/613** (2015.04 - EP); **H01M 10/615** (2015.04 - EP); **H01M 10/643** (2015.04 - EP); **H01M 10/647** (2015.04 - EP); **H01M 10/654** (2015.04 - EP); **H01M 10/6567** (2015.04 - EP); **H01M 50/103** (2021.01 - EP); **H01M 50/107** (2021.01 - EP); **H01M 50/15** (2021.01 - EP); **H01M 50/152** (2021.01 - EP); **H01M 50/176** (2021.01 - EP US); **H01M 50/179** (2021.01 - EP US); **H01M 50/342** (2021.01 - EP); **H01M 50/503** (2021.01 - EP US); **H01M 50/51** (2021.01 - EP US); **H01M 50/512** (2021.01 - EP US); **H01G 11/78** (2013.01 - EP); **H01M 2220/20** (2013.01 - EP); **H01M 2220/30** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP); **Y02T 10/70** (2013.01 - EP)

Citation (search report)  
See references of WO 2021001545A1

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)  
**DE 102019118160 A1 20210107**; EP 3994758 A1 20220511; WO 2021001545 A1 20210107

DOCDB simple family (application)  
**DE 102019118160 A 20190704**; EP 2020068861 W 20200703; EP 20737140 A 20200703