

Title (en)
ENERGY STORAGE DEVICE

Title (de)
ENERGIESPEICHERVORRICHTUNG

Title (fr)
DISPOSITIF ACCUMULATEUR D'ÉNERGIE

Publication
EP 2745335 A1 20140625 (DE)

Application
EP 12747980 A 20120810

Priority

- DE 102011110703 A 20110817
- EP 2012003434 W 20120810

Abstract (en)
[origin: WO2013023773A1] The invention relates to an energy storage device comprising at least one energy storage cell having an electrode stack (2) or an electrode winding. In order to ensure an enhanced functional reliability while keeping the structure simple, at least one outer functional layer (10) is provided on at least one outer wall of the energy storage cell, in particular the electrode stack (2) or electrode winding, said outer functional layer comprising a carrier layer that is at least partially permeable to substances.

IPC 8 full level
H01M 6/46 (2006.01); **H01M 8/00** (2006.01); **H01M 8/04** (2006.01); **H01M 8/24** (2006.01); **H01M 10/04** (2006.01); **H01M 10/12** (2006.01); **H01M 10/52** (2006.01); **H01M 50/103** (2021.01); **H01M 50/117** (2021.01); **H01M 50/121** (2021.01); **H01M 50/126** (2021.01); **H01M 50/131** (2021.01)

CPC (source: EP US)
H01M 6/46 (2013.01 - EP); **H01M 8/004** (2013.01 - EP); **H01M 8/006** (2013.01 - EP); **H01M 8/04007** (2013.01 - EP); **H01M 8/2475** (2013.01 - EP); **H01M 10/0431** (2013.01 - EP); **H01M 10/052** (2013.01 - EP); **H01M 10/125** (2013.01 - EP); **H01M 50/103** (2021.01 - EP US); **H01M 50/117** (2021.01 - EP US); **H01M 50/121** (2021.01 - EP US); **H01M 50/124** (2021.01 - EP); **H01M 50/1245** (2021.01 - EP); **H01M 50/126** (2021.01 - EP US); **H01M 50/131** (2021.01 - EP US); **H01M 2220/20** (2013.01 - EP); **H01M 2250/20** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP); **Y02E 60/50** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP); **Y02T 90/40** (2013.01 - EP)

Citation (search report)
See references of WO 2013023773A1

Citation (examination)
US 3765942 A 19731016 - JACHE O

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

DOCDB simple family (publication)
WO 2013023773 A1 20130221; DE 102011110703 A1 20150423; EP 2745335 A1 20140625

DOCDB simple family (application)
EP 2012003434 W 20120810; DE 102011110703 A 20110817; EP 12747980 A 20120810