

Title (en)  
ELECTRODE FOR RECHARGEABLE ENERGY STORAGE DEVICE

Title (de)  
ELEKTRODE FÜR AUFLADBARE ENERGIESPEICHERVORRICHTUNG

Title (fr)  
ÉLECTRODE POUR DISPOSITIF DE STOCKAGE DE L'ÉNERGIE RECHARGEABLE

Publication  
**EP 3931892 A1 20220105 (FR)**

Application  
**EP 20719687 A 20200227**

Priority

- FR 1902150 A 20190301
- FR 2020050395 W 20200227

Abstract (en)  
[origin: WO2020178509A1] The present invention relates to an electrode for a rechargeable energy storage device, comprising a plurality of inner layers interposed between two outer layers, said inner layers comprising a plurality of electrode-material ME layers composed of at least one active electrode material and a plurality of porous current-collector CC layers composed of one or more electrically conductive materials whose electronic conductivity is higher than or equal to 102 S.cm<sup>-1</sup>, said electrode-material ME and current-collector CC layers alternating, characterized in that said outer layers are not formed of said porous current-collector CC layers, and in that said electrode has a total thickness ranging from strictly more than 4 mm, preferably ranging from strictly more than 4 mm to 10 mm, in particular ranging from strictly more than 4 mm to 8 mm.

IPC 8 full level  
**H01M 4/36** (2006.01); **H01M 4/24** (2006.01); **H01M 4/64** (2006.01); **H01M 4/70** (2006.01); **H01M 4/72** (2006.01); **H01M 4/74** (2006.01); **H01M 10/24** (2006.01); **H01M 10/30** (2006.01)

CPC (source: EP KR US)  
**H01M 4/24** (2013.01 - KR US); **H01M 4/244** (2013.01 - EP KR US); **H01M 4/366** (2013.01 - EP US); **H01M 4/48** (2013.01 - US); **H01M 4/622** (2013.01 - US); **H01M 4/64** (2013.01 - EP); **H01M 4/661** (2013.01 - US); **H01M 4/70** (2013.01 - EP); **H01M 4/72** (2013.01 - EP KR US); **H01M 4/74** (2013.01 - KR); **H01M 4/742** (2013.01 - EP KR); **H01M 4/808** (2013.01 - KR); **H01M 10/24** (2013.01 - EP); **H01M 10/30** (2013.01 - EP KR US); **H01M 12/065** (2013.01 - KR); **H01M 50/417** (2021.01 - US); **H01M 50/44** (2021.01 - US); **H01M 2004/021** (2013.01 - US); **H01M 2300/0014** (2013.01 - KR); **Y02E 60/10** (2013.01 - EP)

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)  
**FR 3093380 A1 20200904**; **FR 3093380 B1 20210312**; CN 113474920 A 20211001; CN 113474920 B 20231229; EP 3931892 A1 20220105; JP 2022525730 A 20220519; KR 20210133969 A 20211108; US 2022149356 A1 20220512; WO 2020178509 A1 20200910

DOCDB simple family (application)  
**FR 1902150 A 20190301**; CN 202080016485 A 20200227; EP 20719687 A 20200227; FR 2020050395 W 20200227; JP 2021549183 A 20200227; KR 20217028058 A 20200227; US 202017434948 A 20200227