

Title (en)

LEAD ACID BATTERY AND METHOD OF MAKING SUCH A BATTERY

Title (de)

BLEIBATTERIE UND VERFAHREN ZUM HERSTELLEN EINER SOLCHEN BATTERIE

Title (fr)

ACCUMULATEUR AU PLOMB-ACIDE ET PROCÉDÉ DE FABRICATION D'UN TEL ACCUMULATEUR

Publication

EP 3149790 A1 20170405 (FR)

Application

EP 15729544 A 20150529

Priority

- FR 1454933 A 20140530
- FR 1454930 A 20140530
- FR 2015051417 W 20150529

Abstract (en)

[origin: WO2015181508A1] The invention concerns a lead-acid electrochemical battery comprising a negative electrode and a positive electrode (2), in which the negative electrode comprises: a current collector formed from a carbon sheet having a thickness of between 50 µm and 200 µm; first and second layers made from lead respectively covering the first and second faces of the carbon sheet; and first and second layers of an active material containing lead, having a thickness of between 100 µm and 500 µm, and disposed on either side of the carbon sheet, respectively on the first and second layers made from lead; and in which the positive electrode (2) comprises: a current collector formed from a titanium sheet (20) having a thickness of between 50 µm and 250 µm; - first and second layers made from electrically conductive metal oxide (21 a, 21 b), respectively covering the first and second faces (20a, 20b) of the titanium sheet; and first and second layers of an active material containing lead (22a, 22b), having a thickness of between 100 µm and 500 µm, disposed on either side of the titanium sheet, respectively on the first and second layers made from metal oxide (21 a, 21 b).

IPC 8 full level

H01M 2/26 (2006.01); **H01M 4/16** (2006.01); **H01M 4/36** (2006.01); **H01M 4/38** (2006.01); **H01M 4/56** (2006.01); **H01M 4/68** (2006.01); **H01M 10/12** (2006.01); **H01M 50/534** (2021.01); **H01M 50/538** (2021.01); **H01M 50/541** (2021.01)

CPC (source: EP US)

H01M 4/16 (2013.01 - EP US); **H01M 4/366** (2013.01 - US); **H01M 4/38** (2013.01 - US); **H01M 4/56** (2013.01 - US); **H01M 4/68** (2013.01 - EP US); **H01M 10/12** (2013.01 - EP US); **H01M 10/125** (2013.01 - US); **H01M 50/534** (2021.01 - EP US); **H01M 50/538** (2021.01 - EP US); **Y02E 60/10** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP)

Citation (search report)

See references of WO 2015181508A1

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)

WO 2015181508 A1 20151203; EP 3149790 A1 20170405; JP 2017517131 A 20170622; US 2017155171 A1 20170601

DOCDB simple family (application)

FR 2015051417 W 20150529; EP 15729544 A 20150529; JP 2017514981 A 20150529; US 201515314819 A 20150529