Title (en)

SEPARATOR FOR ELECTROCHEMICAL ENERGY ACCUMULATORS AND CONVERTERS

Title (de)

SEPARATOR FÜR ELEKTROCHEMISCHE ENERGIESPEICHER UND WANDLER

Title (fr)

SÉPARATEUR POUR DES ACCUMULATEURS D'ÉNERGIE ÉLECTROCHIMIQUES ET DES CONVERTISSEURS

Publication

EP 3895234 A1 20211020 (DE)

Application

EP 19816668 A 20191206

Priority

- DE 102018131928 A 20181212
- EP 2019083964 W 20191206

Abstract (en)

[origin: WO2020120310A1] The invention relates to a separator for electrochemical energy accumulators and/or converters, wherein the separator contains a porous substrate with a comb polymer wherein the comb polymer contains a polymer main chain and several lateral chains that are covalently connected to the polymer main chain. At least one of the lateral chains has at least one Lewis acid and/or Lewis-base functionality.

IPC 8 full level

C25B 9/00 (2021.01); **H01G 9/00** (2006.01); **H01M 8/1018** (2016.01); **H01M 8/1023** (2016.01); **H01M 10/052** (2010.01); **H01M 10/0525** (2010.01); **H01M 50/403** (2021.01); **H01M 50/414** (2021.01); **H01M 50/417** (2021.01); **H01M 50/42** (2021.01)

CPC (source: EP US)

C08F 290/062 (2013.01 - US); **C25B 13/08** (2013.01 - EP US); **H01G 9/02** (2013.01 - EP); **H01G 11/52** (2013.01 - EP US); **H01G 11/84** (2013.01 - US); **H01M 8/0239** (2013.01 - US); **H01M 8/1023** (2013.01 - EP US); **H01M 8/18** (2013.01 - US); **H01M 10/052** (2013.01 - EP); **H01M 10/0525** (2013.01 - EP); **H01M 50/403** (2021.01 - EP US); **H01M 50/414** (2021.01 - EP US); **H01M 50/417** (2021.01 - EP US); **H01M 50/42** (2021.01 - EP US); **H01M 50/44** (2021.01 - US); **H01M 50/489** (2021.01 - US); C08F 2810/20 (2013.01 - US); H01M 2008/1095 (2013.01 - EP US); Y02E 60/10 (2013.01 - EP); Y02E 60/50 (2013.01 - EP); Y02P 70/50 (2015.11 - 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)

WO 2020120310 A1 20200618; CN 113169415 A 20210723; DE 102018131928 A1 20200618; EP 3895234 A1 20211020; US 2022056186 A1 20220224

DOCDB simple family (application)

EP 2019083964 W 20191206; CN 201980057690 A 20191206; DE 102018131928 A 20181212; EP 19816668 A 20191206; US 201917312953 A 20191206