

Title (en)
LITHIUM ION BATTERIES

Title (de)
LITHIUM-IONEN-BATTERIEN

Title (fr)
BATTERIES LITHIUM-ION

Publication
EP 3956935 A1 20220223 (DE)

Application
EP 19721552 A 20190417

Priority
EP 2019059977 W 20190417

Abstract (en)
[origin: WO2020211938A1] The invention relates to lithium ion batteries comprising a cathode, anode, separator and electrolyte, and a battery housing which receives these components, characterised in that a cathode, an anode, a separator or any other reservoir located in the battery housing and differing from the electrolyte contains one or more organic or inorganic nitrates or one or more organic or inorganic nitrites, and the anode contains silicon particles with a silicon content of ≥ 90 wt.% in relation to the total weight of the silicon particles.

IPC 8 full level
H01M 4/134 (2010.01); **H01M 10/0525** (2010.01); **H01M 10/42** (2006.01)

CPC (source: EP KR US)
H01M 4/134 (2013.01 - EP KR US); **H01M 4/386** (2013.01 - EP KR US); **H01M 4/62** (2013.01 - US); **H01M 10/0525** (2013.01 - EP KR US); **H01M 10/0568** (2013.01 - US); **H01M 10/4235** (2013.01 - EP KR); **H01M 50/1243** (2021.01 - US); **H01M 2004/027** (2013.01 - US); **H01M 2300/0025** (2013.01 - US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)
See references of WO 2020211938A1

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 2020211938 A1 20201022; CN 112823438 A 20210518; EP 3956935 A1 20220223; JP 2022528814 A 20220616; JP 7213345 B2 20230126; KR 20210148272 A 20211207; US 2022216519 A1 20220707

DOCDB simple family (application)
EP 2019059977 W 20190417; CN 201980067028 A 20190417; EP 19721552 A 20190417; JP 2021528986 A 20190417; KR 20217035693 A 20190417; US 201917604435 A 20190417