

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  $\geq 90$  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

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BA ME

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**EP 2019059977 W 20190417**; CN 201980067028 A 20190417; EP 19721552 A 20190417; JP 2021528986 A 20190417; KR 20217035693 A 20190417; US 201917604435 A 20190417