

Title (en)
METHOD FOR FORMING A LI-ION BATTERY CELL

Title (de)
VERFAHREN ZUR HERSTELLUNG EINER LI-IONEN-BATTERIEZELLE

Title (fr)
PROCÉDÉ DE FORMATION D'UNE CELLULE DE BATTERIE LI-ION

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Application
EP 20715076 A 20200402

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• FR 1904343 A 20190425
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Abstract (en)
[origin: WO2020216597A1] The invention relates to a method for forming a Li-ion battery cell comprising a cathode material, an anode material, a separator and an electrolyte, the electrolyte comprising a mixture of a polyethylene oxide and an oxide of formula $\text{Li}_x\text{V}_y\text{La}_z\text{Sn}_w\text{O}_n$, characterised in that it comprises the following successive cycling steps: (a) at least two successive charge and discharge cycles of the cell at a first cycling rate C/x , the charge/discharge steps being limited in time to $x/2$; (b) at least two successive charge and discharge cycles of the cell at a second charging rate C/y , different from the first cycling rate, where y is lower than x , the charge/discharge steps being limited in time to $y/2$; and (c) at least two successive charge and discharge cycles of the cell at a third cycling rate C/z different from the first and second charging rates, where z is lower than x and y , the charge/discharge steps being limited in time to $z/2$.

IPC 8 full level
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H01M 4/131 (2013.01 - KR); **H01M 4/485** (2013.01 - US); **H01M 4/62** (2013.01 - KR); **H01M 4/625** (2013.01 - KR); **H01M 10/049** (2013.01 - EP); **H01M 10/0525** (2013.01 - KR US); **H01M 10/056** (2013.01 - EP KR US); **H01M 10/058** (2013.01 - KR); **H01M 10/446** (2013.01 - EP KR US); **H01M 10/52** (2013.01 - EP); **H01M 4/625** (2013.01 - US); **H01M 10/0436** (2013.01 - US); **H01M 2004/028** (2013.01 - US); **H01M 2300/0071** (2013.01 - KR); **H01M 2300/0077** (2013.01 - EP); **H01M 2300/0088** (2013.01 - EP); **H01M 2300/0091** (2013.01 - EP KR US); **Y02E 60/10** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP)

Cited by
CN114744713A

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WO 2020216597 A1 20201029; CN 113728480 A 20211130; CN 113728480 B 20241011; EP 3959768 A1 20220302; FR 3095552 A1 20201030; FR 3095552 B1 20210402; JP 2022530010 A 20220627; JP 7520881 B2 20240723; KR 20220005015 A 20220112; US 12068448 B2 20240820; US 2022216504 A1 20220707

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