

Title (en)  
GELLED ELECTROLYTE FOR LITHIUM ION ELECTROCHEMICAL ELEMENT

Title (de)  
GELIERTER ELEKTROLYT FÜR ELEKTROCHEMISCHES LITHIUMIONENELEMENT

Title (fr)  
ÉLECTROLYTE GELIFIÉ POUR ÉLEMENT ÉLECTROCHIMIQUE LITHIUM ION

Publication  
**EP 4052314 A1 20220907 (FR)**

Application  
**EP 20789623 A 20201015**

Priority  
• FR 1912192 A 20191030  
• EP 2020079087 W 20201015

Abstract (en)  
[origin: WO2021083681A1] A gel-type electrolyte comprising a matrix which is a poly(vinylidene fluoride-co-hexafluoropropylene) polymer in which is embedded a liquid mixture comprising at least one lithium salt and a solvent comprising at least one linear carbonate, the poly(vinylidene fluoride-co-hexafluoropropylene) polymer matrix representing 5 to 95% by weight in relation to the weight of the gel-type electrolyte, and the liquid mixture representing 95 to 5% by weight in relation to the weight of the gel-type electrolyte. This electrolyte exhibits increased stability with respect to oxidation and reduction.

IPC 8 full level  
**H01M 4/485** (2010.01); **H01M 4/505** (2010.01); **H01M 4/525** (2010.01); **H01M 4/58** (2010.01); **H01M 10/0525** (2010.01); **H01M 10/0565** (2010.01); **H01M 10/0568** (2010.01); **H01M 10/0569** (2010.01)

CPC (source: EP US)  
**H01M 4/485** (2013.01 - EP US); **H01M 4/505** (2013.01 - EP US); **H01M 4/525** (2013.01 - EP); **H01M 4/58** (2013.01 - US); **H01M 4/5825** (2013.01 - EP); **H01M 10/0525** (2013.01 - EP US); **H01M 10/0565** (2013.01 - EP US); **H01M 10/0568** (2013.01 - EP); **H01M 10/0569** (2013.01 - EP); **H01M 2300/0028** (2013.01 - EP); **H01M 2300/0082** (2013.01 - US); **H01M 2300/0085** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)  
See references of WO 2021083681A1

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Designated extension state (EPC)  
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DOCDB simple family (publication)  
**WO 2021083681 A1 20210506**; EP 4052314 A1 20220907; FR 3102889 A1 20210507; FR 3102889 B1 20230421; US 2022407106 A1 20221222

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