

Title (en)
METHOD FOR DRYING AND PURIFYING LIFS

Title (de)
VERFAHREN ZUR TROCKNUNG UND REINIGUNG VON LIFS

Title (fr)
PROCÉDÉ DE SÉCHAGE ET DE PURIFICATION DE LIFS

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Application
EP 17816998 A 20171207

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Abstract (en)
[origin: WO2018104675A1] The present invention relates to a method for drying and purifying a lithium bis(fluorosulfonyl)imide salt in solution in an organic solvent S1, said method comprising the following steps: a) adding deionised water to dissolve and extract the lithium bis(fluorosulfonyl)imide salt, forming an aqueous solution of said salt; b) extracting the lithium bis(fluorosulfonyl)imide salt from said aqueous solution, using an organic solvent S2, said step being repeated at least once; c) concentrating the lithium bis(fluorosulfonyl)imide salt by evaporating said organic solvent S2 and the water, in a short-path thin-film evaporator, under the following conditions: temperature of 30°C to 95°C, pressure of 10- 3 mbar abs to 5 mbar abs, residence time no longer than 15 min; and d) optionally crystallising the lithium bis(fluorosulfonyl)imide salt. The present invention likewise relates to a composition made of lithium bis(fluorosulfonyl)imide salt, and the uses thereof in Li-ion batteries.

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