

Title (en)
SOLID ELECTROLYTE FOR ELECTROCHEMICAL DEVICES

Title (de)
FESTELEKTROLYT FÜR ELEKTROCHEMISCHE VORRICHTUNGEN

Title (fr)
ELECTROLYTE SOLIDE POUR DISPOSITIFS ELECTROCHIMIQUES

Publication
EP 3766119 A1 20210120 (FR)

Application
EP 19728502 A 20190506

Priority
• FR 1853923 A 20180507
• FR 2019051032 W 20190506

Abstract (en)
[origin: CA3098637A1] A method for manufacturing a solid electrolyte for a lithium-ion battery or a supercapacitor, deposited onto an electrode, comprising the following steps: a. providing a conductive substrate, previously covered with a layer of a material that can be used as an electrode ("electrode layer"); b. depositing an electrolyte layer onto said electrode layer, preferably by electrophoresis or by dip-coating, from a suspension of core-shell particles comprising, as a core, a particle of a material that can be used as an electrolyte or an electric isolator, on which a shell comprising PEO is grafted; c. drying the electrolyte layer that is thus obtained, preferably in an airflow; d. optionally densifying said electrolyte layer by mechanical compression and/or heat treatment.

IPC 8 full level
H01G 11/56 (2013.01); **H01M 10/052** (2010.01); **H01M 10/0525** (2010.01); **H01M 10/056** (2010.01); **H01M 10/0585** (2010.01)

CPC (source: EP US)
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Citation (search report)
See references of WO 2019215410A1

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FR 3080952 A1 20191108; **FR 3080952 B1 20200717**; CA 3098637 A1 20191114; CN 112042031 A 20201204; EP 3766119 A1 20210120; JP 2021522661 A 20210830; SG 11202010867Q A 20201230; US 2021104777 A1 20210408; WO 2019215410 A1 20191114

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