

Title (en)  
METHOD FOR PRODUCING A POLYMER COMPOSITE MATERIAL FOR AN ELECTROCHEMICAL CELL BY MEANS OF A SWOLLEN POLYMER

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES POLYMERVERBUNDWERKSTOFFS FÜR EINE ELEKTROCHEMISCHE ZELLE MITTELS EINES GEQUOLLENEN POLYMERS

Title (fr)  
PROCÉDÉ DE FABRICATION D'UN MATÉRIAU COMPOSITE POLYMÈRE POUR UNE CELLULE ÉLECTROCHIMIQUE UTILISANT UN POLYMÈRE GONFLÉ

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Application  
**EP 19732273 A 20190607**

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Abstract (en)  
[origin: WO2019243085A1] The present invention relates to a method for producing a polymer composite material, particularly an electrode (10) and/or a separator, for an electrochemical cell, particularly for a battery cell and/or fuel cell and/or electrolysis cell. In order to improve the production of polymer composite materials, in the form of electrodes and/or separators, for example, particularly for electrochemical cells, and the properties and/or functionality thereof, such as the specific energy density and/or electrical conductivity thereof, at least one swellable polymer (1) is mixed with a solvent quantity of at least one solvent (2), which can be absorbed completely in the at least one swellable polymer (1) by swelling the at least one swellable polymer (1) and which swells the at least one swellable polymer (1), and with at least one particulate material (3, 4). A polymer composite material, particularly an electrode (10) and/or a separator, for an electrochemical cell, particularly for a battery cell and/or fuel cell and/or electrolysis cell, is then formed from the mixture (1, 2, 3, 4).

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