

Title (en)

MICROPOROUS SOLID ELECTROLYTES AND METHODS FOR PREPARING THEM

Title (de)

MIKROPORÖSE FESTELEKTROLYTEN UND VERFAHREN ZUR DEREN HERSTELLUNG

Title (fr)

ELECTROLYTES SOLIDES MINERAUX MICROPOREUX ET PROCEDES DE PREPARATION

Publication

**EP 1290749 A4 20040922 (EN)**

Application

**EP 00927894 A 20000524**

Priority

KR 0000482 W 20000524

Abstract (en)

[origin: WO0199220A1] The present invention is directed to an electrolyte film and/or a solid electrolyte, having a microporous structure, for a rechargeable cell. According to the present invention, when preparing the electrolyte film and/or the solid electrolyte, an inorganic absorbent is added in the amount of more than 70 % by weight in a polymer matrix to prevent the porous structure from being destructed at the cell-assembling process such as lamination or pressing, whereby the absorbing power of a liquid electrolyte to the solid electrolyte film and the ionic conductivity can be maintained. The inorganic absorbent contained over the specific amount, together with the microporous structure, improves the capacity of absorbing the liquid electrolyte and, in particular, works as a structure element of increasing the mechanical strength of electrolyte film and/or solid electrolyte. Therefore, the good ionic conductivity can be maintained even after the assembly of cell.

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Citation (search report)

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- See references of WO 0199220A1

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