

Title (en)

ALKALI-ION BATTERY BASED ON SELECTED ALLOTROPES OF SULPHUR, AND METHODS FOR THE PRODUCTION THEREOF

Title (de)

ALKALI-IONEN BATTERIE, BASIEREND AUF AUSGEWÄHLTEN ALLOTROPEN DES SCHWEFELS, SOWIE METHODEN ZU DEREN HERSTELLUNG

Title (fr)

BATTERIE AUX IONS ALCALINS SUR LA BASE D'ALLOTROPES SÉLECTIONNÉS DU SOUFRE ET SES PROCÉDÉS DE FABRICATION

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Application

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Priority

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Abstract (en)

[origin: WO2019081367A1] The invention relates to a new generation of alkali-ion-sulphur batteries in which specific sulphur allotropes, particularly the Psi allotrope of sulphur, are used as the active material of the cathode. Alkali metals or alkaline-earth metals are used as anodes. A preferred production method describes the production of the Psi-sulphur fibres by a special form of electrospinning. Another preferred production method describes the addition of the cation source in liquid form during the production of battery stacks. Finally, the invention relates to specific preferred novel forms of embodiment of alkali-ion-sulphur batteries, which are characterised by significant advantages in terms of capacity and service life.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2019081367A1

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