

Title (en)
SULFIDE SOLID ELECTROLYTE MATERIAL, BATTERY, AND METHOD FOR PRODUCING SULFIDE SOLID ELECTROLYTE MATERIAL

Title (de)
FESTES SULFID-ELEKTROLYTMATERIAL, BATTERIE UND VERFAHREN ZUR HERSTELLUNG DES FESTEN SULFID-ELEKTROLYTMATERIALS

Title (fr)
MATÉRIAU ÉLECTROLYTE SOLIDE À SULFURE, BATTERIE, ET PROCÉDÉ DE FABRICATION DE MATÉRIAU ÉLECTROLYTE SOLIDE À SULFURE

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Abstract (en)
[origin: EP2555307A1] The problem of the present invention is to provide a sulfide solid electrolyte material having excellent ion conductivity. The present invention solves the problem by providing a sulfide solid electrolyte material comprising an M 1 element (such as a Li element), an M 2 element (such as a Ge element and a P element), and an S element; having a peak in a position of $2\theta = 29.58^\circ \pm 0.50^\circ$ in an X-ray diffraction measurement using a $\text{CuK}\alpha$ line; and having an I B / I A value of less than 0.50 when a diffraction intensity at the peak of $2\theta = 29.58^\circ \pm 0.50^\circ$ is represented by I A and a diffraction intensity at a peak of $2\theta = 27.33^\circ \pm 0.50^\circ$ is represented by I B .

IPC 8 full level
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Citation (search report)
See references of WO 2011118801A1

Cited by
DE102015224345A1; EP3349289A4; US11063293B2; WO2014186634A2; US11161740B2; US10854912B2; US11063289B2; WO2019007501A1; WO2018041374A1; WO2018041375A1; US10807877B2; US11370670B2; EP2866291B1

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