

Title (en)

Rechargeable non-aqueous cell with a chalcogenide-containing electrode, a method for preparing the chalcogenide compound and a method for the preparation of the cell.

Title (de)

Wiederaufladbare Zelle mit nicht wässrigem Elektrolyt und einer ein Chalcogenid enthaltenden Elektrode, Verfahren zur Herstellung des Chalcogenids und Verfahren zur Herstellung der Zelle.

Title (fr)

Pile rechargeable à électrolyte non aqueux et à électrode contenant un chalcogénure, procédé de fabrication dudit chalcogénure et procédé de fabrication de la pile.

Publication

EP 0000197 A1 19790110 (EN)

Application

EP 78100249 A 19780627

Priority

US 81017677 A 19770627

Abstract (en)

A non-aqueous secondary cell having a conventional alkali metal anode and a cathode which contains as the active material a chalcogenide having the nominal atom composition $M_xN_{1-x}S_2$ in which M is Mn, Fe, Ni, or Co, or mixtures thereof, N is V or Cr or mixtures thereof, and x is less than or equal to 0.5 when N is V and M is Fe, less than or equal to 0.33 when N is V and M is Ni, CO₂ or Mn, and less than 0.33 when N is Cr. Said chalcogenide is prepared by adding an oxidizing agent having an oxidizing potential of at least 2.8 Volts to a compound with formula $Li_yM_xN_{1-x}S_2$, in which y is less than or equal to 1.

IPC 1-7

H01M 10/36; **C01G 1/12**; **H01M 4/58**

IPC 8 full level

C01G 1/12 (2006.01); **C01G 31/00** (2006.01); **C01G 45/00** (2006.01); **C01G 49/00** (2006.01); **H01M 4/58** (2010.01); **H01M 10/052** (2010.01); **H01M 10/36** (2010.01); **H01M 4/136** (2010.01)

CPC (source: EP US)

C01G 1/12 (2013.01 - EP US); **H01M 4/581** (2013.01 - EP US); **H01M 4/5815** (2013.01 - EP US); **H01M 10/052** (2013.01 - EP US); **H01M 4/136** (2013.01 - EP US)

Citation (search report)

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EP 0000197 A1 19790110; **EP 0000197 B1 19811111**; CA 1113683 A 19811208; DE 2861308 D1 19820114; JP S5411430 A 19790127; JP S61295238 A 19861226; US 4125687 A 19781114; US 4159962 A 19790703

DOCDB simple family (application)

EP 78100249 A 19780627; CA 304521 A 19780531; DE 2861308 T 19780627; JP 14724386 A 19860625; JP 7709678 A 19780627; US 81017677 A 19770627; US 91019378 A 19780530