

Title (en)  
IMPROVEMENTS TO Ni-Zn BATTERY

Title (de)  
VERBESSERUNGEN IN NI-ZN AKKUMULATOR

Title (fr)  
PERFECTIONNEMENTS APPORTES A L'ACCUMULATEUR Ni-Zn

Publication  
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Application  
**EP 00964375 A 20000927**

Priority  
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• FR 9912338 A 19990930

Abstract (en)  
[origin: WO0124304A1] The invention concerns an alkaline Ni-Zn battery comprising both anolyte (E) partially or totally in the form of a viscous phase such as a gel, and catholyte (D) optionally in the form of a viscous phase, a microporous separator (A) between the anolyte and the catholyte, the anolyte and the catholyte having different compositions and volume, and an assembly of bipolar elements. The microporous separator is enclosed between impregnated macroporous separators (F) of the anolyte and the catholyte respectively. The total volume of the anolyte and of the catholyte is contained in the porosity of the macroporous separators and in the porosity of the electrodes. The microporous separator is for example based on cellulose or polypropylene. The inventive Ni-Zn battery has good charging/discharging cycles and low plate resistance.

IPC 1-7  
**H01M 10/28**; **H01M 10/30**

IPC 8 full level  
**H01M 10/28** (2006.01); **H01M 10/30** (2006.01); **H01M 50/417** (2021.01); **H01M 50/429** (2021.01); **H01M 4/02** (2006.01)

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See references of WO 0124304A1

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