

Title (en)
METHOD OF MANUFACTURING NICKEL ZINC BATTERIES

Title (de)
VERFAHREN ZUR HERSTELLUNG VON NICKEL-ZINK-BATTERIEN

Title (fr)
PROCEDE DE FABRICATION D'ACCUMULATEURS AU NICKEL-ZINC

Publication
EP 1859504 A2 20071128 (EN)

Application
EP 06736671 A 20060301

Priority
• US 2006007390 W 20060301
• US 65782505 P 20050301

Abstract (en)
[origin: WO2006094110A2] Methods of manufacturing a rechargeable power cell are described. Methods include providing a slurry, paste, or dry mixture of negative electrode materials having low toxicity and including dispersants to prevent the agglomeration of particles that may adversely affect the performance of power cells. The methods utilize semi-permeable sheets to separate the electrodes and minimize formation of dendrites; and further provide electrode specific electrolyte to achieve efficient electrochemistry and to further discourage dendritic growth in the cell. The negative electrode materials may be comprised of zinc and zinc compounds. Zinc and zinc compounds are notably less toxic than the cadmium used in nickel cadmium batteries. The described methods may utilize some production techniques employed in existing NiCad production lines. Thus, the methods described will find particular use in an already well-defined and mature manufacturing base.

IPC 8 full level
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H01M 4/0404 (2013.01 - KR); **H01M 4/0447** (2013.01 - KR); **H01M 4/0471** (2013.01 - KR); **H01M 4/0478** (2013.01 - EP KR); **H01M 4/048** (2013.01 - EP KR); **H01M 4/244** (2013.01 - EP KR); **H01M 4/26** (2013.01 - KR); **H01M 4/32** (2013.01 - EP KR); **H01M 4/364** (2013.01 - EP KR); **H01M 4/52** (2013.01 - KR); **H01M 4/621** (2013.01 - EP KR); **H01M 4/623** (2013.01 - EP KR); **H01M 4/661** (2013.01 - KR); **H01M 4/74** (2013.01 - KR); **H01M 4/808** (2013.01 - KR); **H01M 10/286** (2013.01 - KR); **H01M 10/288** (2013.01 - KR); **H01M 10/30** (2013.01 - EP KR); **H01M 10/446** (2013.01 - KR); **H01M 50/417** (2021.01 - KR); **H01M 50/423** (2021.01 - KR); **H01M 50/449** (2021.01 - KR); **H01M 50/533** (2021.01 - EP KR US); **H01M 50/536** (2021.01 - EP KR US); **H01M 50/538** (2021.01 - EP KR US); **H01M 4/52** (2013.01 - EP); **H01M 4/74** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP KR); **Y02P 70/50** (2015.11 - EP KR)

Citation (search report)
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