

Title (en)

ALKALINE CELL WITH FLAT HOUSING

Title (de)

ALKALIZELLE MIT FLACHGEHÄUSE

Title (fr)

PILE ALCALINE DOTEED D'UN BOITIER PLAT

Publication

EP 1716607 A2 20061102 (EN)

Application

EP 04820021 A 20041112

Priority

- US 2004037979 W 20041112
- US 72287903 A 20031126

Abstract (en)

[origin: CN1886846A] An alkaline cell having a flat housing, preferably of cuboid shape. The cell can have an anode comprising zinc and a cathode comprising MnO₂. The housing can have a relatively small overall thickness, typically between about 5 and 10 mm. Cell contents can be supplied through an open end in the housing and an end cap assembly inserted therein to seal the cell. There can be a gap between separator and cathode for insertion of additional electrolyte. The end cap assembly includes a vent mechanism, preferably a grooved vent, which can activate, when gas pressure within the cell reaches a threshold level typically between about 250 and 800 psig (1724 x 10³ to pascal gage). The cell can have a supplemental vent mechanism such as a laser welded region on the surface of the housing which may activate at higher pressure levels.

IPC 8 full level

H01M 50/152 (2021.01); **H01M 50/188** (2021.01); **H01M 50/342** (2021.01)

CPC (source: EP)

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Citation (search report)

See references of WO 2005055342A2

Designated contracting state (EPC)

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Designated extension state (EPC)

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BR PI0416841 A 20070213; CN 100466336 C 20090304; CN 1886846 A 20061227; EP 1716607 A2 20061102; JP 2007512671 A 20070517

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