

Title (en)
ELECTROCHEMICAL CELL.

Title (de)
ELEKTROCHEMISCHE ZELLE.

Title (fr)
CELLULE ELECTROCHIMIQUE.

Publication
EP 0147402 A4 19860107 (EN)

Application
EP 84901144 A 19840213

Priority
US 49725283 A 19830519

Abstract (en)
[origin: WO8404630A1] A method and apparatus for providing electrical energy. The apparatus defines an electrochemical cell (10) having a lithium-containing anode (11) and an air cathode (12). Electrolyte solution (18) containing soluble oxygen is flowed into contact with one surface of the air cathode. The opposite surface of the air cathode is exposed to ambient atmosphere. A catalytic screen (13) is provided between the anode and cathode where the soluble oxygen is present in the electrolyte in the form of H₂O₂ for catalyzing decomposition of the H₂O₂ and the reaction between the H₂O₂ and the cathode ions. A pump (20) is provided for selectively controlling the rate of flow of the electrolyte, as desired.

IPC 1-7
H01M 6/50

IPC 8 full level
H01M 6/50 (2006.01); **H01M 12/06** (2006.01); **H01M 12/04** (2006.01)

CPC (source: EP)
H01M 12/04 (2013.01)

Citation (search report)

- [Y] CH 406336 A 19660131 - GOLDBERGER MAX [CH]
- [Y] GB 530859 A 19401223 - ERICH MARHENKEL
- [Y] US 4296184 A 19811020 - STACHURSKI JOHN Z O
- [Y] PROCEEDINGS OF THE FOURTH INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE, 22nd-26th September 1969, Washington, D.C., pages 904-910; S. ZAROMB: "An aluminum-hydrogen peroxide power source"
- See also references of WO 8404630A1

Designated contracting state (EPC)
BE DE FR GB NL

DOCDB simple family (publication)
WO 8404630 A1 19841122; AU 2578084 A 19841204; AU 557412 B2 19861218; BR 8406892 A 19850416; CA 1219309 A 19870317; EP 0147402 A1 19850710; EP 0147402 A4 19860107; ES 532630 A0 19850916; ES 8507735 A1 19850916; IT 1177735 B 19870826; IT 8448210 A0 19840517; JP S60501385 A 19850822; MX 157379 A 19881118; NO 850146 L 19850114

DOCDB simple family (application)
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