

Title (en)

PROCESS FOR THE ELECTROLYTIC PRODUCTION OF HYDROGEN PEROXIDE, AND USE THEREOF

Publication

EP 0095997 B1 19870401 (DE)

Application

EP 83710018 A 19830411

Priority

CH 329482 A 19820528

Abstract (en)

[origin: US4455203A] Hydrogen peroxide, H₂O₂, is electrochemically produced from water or an aqueous solution and oxygen in an electrolytic cell using a solid electrolyte (1) made of a perfluorinated polymer and gas-permeable coatings (2,3) as electrodes by supplying the water to the anode side and the oxygen to the cathode side and withdrawing the H₂O₂ on the cathode side. In this process, the oxygen produced on the anode side can also be made use of by passing it round to the cathode side or passing it through the solid electrolyte (1) in any such case where no undesirable gas (for example chlorine) is simultaneously formed at the anode. The process works largely independently of the cation concentration (salts, bases) and does not require an additional separation of the H₂O₂ from a liquid electrolyte.

IPC 1-7

C25B 1/30; **C25B 9/00**

IPC 8 full level

C25B 1/30 (2006.01); **C25B 9/23** (2021.01)

CPC (source: EP US)

C25B 1/30 (2013.01 - EP US); **C25B 9/23** (2021.01 - EP US)

Cited by

AU712295B2; CN113774409A; DE4317349C1; CN107317051A; WO9713006A1

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