

Title (en)
HYDROGEN PEROXIDE PRODUCTION

Title (de)
HERSTELLUNG VON WASSERSTOFFPEROXID

Title (fr)
PRODUCTION DE PEROXYDE D'HYDROGÈNE

Publication
EP 3260578 A1 20171227 (EN)

Application
EP 16176252 A 20160624

Priority
EP 16176252 A 20160624

Abstract (en)
Processes for the electrochemical production of hydrogen peroxide and reactors are described. A process comprises: producing H⁺ cations at an anode, producing HO₂⁻ anions at a cathode, transporting said H⁺ cations through a cation exchange membrane into a compartment, transporting said HO₂⁻ anions through an anion exchange membrane into said compartment, wherein hydrogen peroxide is formed in said compartment, and withdrawing a hydrogen peroxide solution through an outlet from said compartment, wherein said compartment comprises a solid ion-conductive material.

IPC 8 full level
C25B 1/30 (2006.01); **C25B 9/23** (2021.01)

CPC (source: EP)
C25B 1/30 (2013.01); **C25B 9/23** (2021.01)

Citation (applicant)

- EP 2845927 A1 20150311 - TNO [NL]
- US 4357217 A 19821102 - KUEHN CHRISTA G, et al
- US 7754064 B2 20100713 - BUSCHMANN WAYNE E [US], et al

Citation (search report)

- [XY] EP 1103264 A2 20010530 - COHERENT TECHNOLOGY CO LTD [JP]
- [Y] US 2005252786 A1 20051117 - DIMASCIO FELICE [US]
- [Y] US 2007215477 A1 20070920 - AKAHORI MASAJI [JP], et al
- [Y] EP 0612864 A2 19940831 - PERMELEC ELECTRODE LTD [JP], et al
- [YD] US 4357217 A 19821102 - KUEHN CHRISTA G, et al

Cited by
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