

Title (en)

OXYGEN/HYDROGEN GENERATOR FOR INTERNAL COMBUSTION ENGINES

Title (de)

SAUERSTOFF/WASSERSTOFF-GENERATOR FÜR BRENNKRAFTMASCHINEN

Title (fr)

GENERATEUR D'OXYGENE / HYDROGENE POUR MOTEURS A COMBUSTION INTERNE

Publication

EP 1689912 A4 20070926 (EN)

Application

EP 04818368 A 20041115

Priority

- CA 2004001964 W 20041115
- CA 2449538 A 20031114

Abstract (en)

[origin: WO2005047568A1] A hydrolytic cell consists of upper and lower chambers sealed from each other by a divider, with one or more openings in the divider for the passage of gas into the upper chamber. Liquid is prevented from entering the upper chamber by gas-permeable filters such as Hastelloy(TM) metal filters. Also disclosed is an electrode consisting either of a generally vertical stack of spaced apart perforated disks or porous metal filters such as Hastelloy filters, mounted to a conductive rod. A level sensing system is disclosed, consisting of a light source and detector which directs light into the lower chamber which is reflected off of a reflector within the chamber, such that the liquid level is detected at the level of the detector by a reduced light intensity.

IPC 8 full level

C25B 1/02 (2006.01); **C25B 9/17** (2021.01)

CPC (source: EP US)

C25B 1/04 (2013.01 - EP US); **C25B 9/17** (2021.01 - EP US); **C25B 11/00** (2013.01 - EP US); **C25B 11/03** (2013.01 - EP US); **Y02E 60/36** (2013.01 - EP US)

Citation (search report)

- [X] US 4124463 A 19781107 - BLUE ARCHIE H
- [X] WO 0233769 A2 20020425 - HO TONG ROBERT KENNETH [ZA], et al
- [XY] WO 03066935 A1 20030814 - E & E CORP [KR], et al
- [Y] WO 0206153 A1 20020124 - HYDROGEN ENERGY AMERICA LLC [US], et al
- [Y] EP 0108552 A2 19840516 - TOSHIBA KK [JP]
- [Y] US 5381022 A 19950110 - NEMETH FRANK A [US], et al
- See references of WO 2005047568A1

Cited by

EP2631437A3

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