

Title (en)

INTERNAL COMBUSTION APPARATUS AND METHOD UTILIZING ELECTROLYSIS CELL

Title (de)

VORRICHTUNG UND VERFAHREN MIT INTERNER VERBRENNUNG DURCH VERWENDUNG VON ELEKTROLYSEZELLEN

Title (fr)

DISPOSITIF À COMBUSTION INTERNE ET PROCÉDÉ UTILISANT UNE CELLULE À ÉLECTROLYSE

Publication

**EP 1949481 A4 20091028 (EN)**

Application

**EP 06816487 A 20061006**

Priority

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- US 72604905 P 20051012
- US 81929306 P 20060707
- US 84499706 P 20060915

Abstract (en)

[origin: US2007080071A1] The present disclosure relates generally to the production of hydrogen and oxygen within an electrolysis cell having a coated anode such that these gases can be added to the fuel source (fossil fuel and/or alternative fuels) of a combustion engine system as a supplement for said fuel source(s) for increased performance.

IPC 8 full level

**C25B 9/17** (2021.01)

CPC (source: EP US)

**C25B 1/02** (2013.01 - EP US); **C25B 1/04** (2013.01 - EP US); **C25B 9/17** (2021.01 - EP US); **C25B 11/091** (2021.01 - EP US); **C25B 15/00** (2013.01 - EP US); **F02D 19/0644** (2013.01 - EP US); **F02D 19/0671** (2013.01 - EP US); **F02M 25/12** (2013.01 - EP US); **F02D 19/081** (2013.01 - EP US); **Y02E 60/36** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US); **Y02T 10/30** (2013.01 - EP US)

Citation (search report)

- [XY] US 2002166546 A1 20021114 - ANDREWS CRAIG C [US], et al
- [Y] GB 1147442 A 19690402 - HENRI BERNARD BEER
- [A] US 3878083 A 19750415 - DE NORA ORONZIO, et al
- See references of WO 2007047182A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**US 2007080071 A1 20070412**; AR 058086 A1 20080123; AU 2006303991 A1 20070426; CA 2663088 A1 20070426; EP 1949481 A2 20080730; EP 1949481 A4 20091028; JP 2009511747 A 20090319; WO 2007047182 A2 20070426; WO 2007047182 A3 20071122

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**US 54437006 A 20061006**; AR P060104481 A 20061012; AU 2006303991 A 20061006; CA 2663088 A 20061006; EP 06816487 A 20061006; JP 2008535595 A 20061006; US 2006039305 W 20061006