

Title (en)
ENERGY TRANSFORMATION DEVICE, SYSTEM AND METHOD FOR COMBUSTING HYDROGEN AND OXYGEN

Title (de)
ENERGIEUMWANDLUNGSVORRICHTUNG, -SYSTEM UND -VERFAHREN ZUR VERBRENNUNG VON WASSERSTOFF UND SAUERSTOFF

Title (fr)
DISPOSITIF, SYSTÈME ET PROCÉDÉ DE TRANSFORMATION D'ÉNERGIE POUR LA COMBUSTION D'HYDROGÈNE ET D'OXYGÈNE

Publication
EP 2386019 A4 20150114 (EN)

Application
EP 10729360 A 20100108

Priority

- NO 2010000010 W 20100108
- NO 20090110 A 20090108

Abstract (en)
[origin: WO2010080042A1] The present invention concerns an energy transformation device with a chamber (2) and a supply system with at least one valve (3) for sequential supply of hydrogen and oxygen to the chamber (2). An ignition system ignites the mixture of hydrogen and oxygen such that it is formed a pressure increase and motion in the water in the chamber. A bleed off valve (21) is provided to bleed off water formed in the combustion. The bleed off valve forms the only outlet of the chamber (2) such that the chamber forms a closed system. Energy receiving elements (7) for receiving motion and pressure in the liquid are integrated with the chamber (2). Furthermore, it is described a method for operating an energy transformation device and a system with an energy transformation device.

IPC 8 full level
F02B 43/10 (2006.01); **F02B 43/12** (2006.01); **F02D 21/02** (2006.01); **F02M 25/10** (2006.01)

CPC (source: EP)
F02B 43/10 (2013.01); **F02M 21/0206** (2013.01); **F02M 21/0227** (2013.01); **F02M 21/0242** (2013.01); **F02M 25/12** (2013.01); **F02B 75/22** (2013.01); **F02M 21/0287** (2013.01); **F23C 2900/9901** (2013.01); **Y02T 10/12** (2013.01); **Y02T 10/30** (2013.01)

Citation (search report)

- [X] CA 2652951 A1 20080103 - FIGL GERHARD [AT]
- [X] WO 8201395 A1 19820429 - BUCKNAM DONALD C
- See references of WO 2010080042A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2010080042 A1 20100715; AU 2010203863 A1 20110825; AU 2010203863 B2 20140605; BR PI1006060 A2 20160906; CA 2761356 A1 20100715; CN 102405339 A 20120404; CN 102405339 B 20150422; EP 2386019 A1 20111116; EP 2386019 A4 20150114; JP 2012514714 A 20120628; JP 5645194 B2 20141224; NO 20090110 L 20100709; NO 332744 B1 20130102; RU 2011133271 A 20130220; RU 2493387 C2 20130920; TR 201108323 T1 20120521

DOCDB simple family (application)
NO 2010000010 W 20100108; AU 2010203863 A 20100108; BR PI1006060 A 20100108; CA 2761356 A 20100108; CN 20108001136 A 20100108; EP 10729360 A 20100108; JP 2011545315 A 20100108; NO 20090110 A 20090108; RU 2011133271 A 20100108; TR 201108323 T 20100108