

Title (en)

HYDROGEN FIRED COMBUSTION CHAMBER SYSTEM, METHOD AND APPARATUS

Title (de)

WASSERSTOFFBEFEUERTES BRENNKAMMERSYSTEM, VERFAHREN UND ANLAGE

Title (fr)

SYSTÈME DE CHAMBRE DE COMBUSTION ALIMENTÉE EN HYDROGÈNE, PROCÉDÉ ET INSTALLATION

Publication

**EP 4113008 A1 20230104 (DE)**

Application

**EP 21183260 A 20210701**

Priority

EP 21183260 A 20210701

Abstract (en)

[origin: WO2023274661A1] The invention relates to a combustion chamber system (1) in which hydrogen (H<sub>2</sub>) and oxygen (O<sub>2</sub>) are burnt in the presence of water (H<sub>2</sub>O) or water vapour (H<sub>2</sub>O).

Abstract (de)

Die Erfindung betrifft ein Brennkammersystem (1), in der Wasserstoff (H<sub>2</sub>) und Sauerstoff (O<sub>2</sub>) in der Anwesenheit von Wasser (H<sub>2</sub>O) oder Wasserdampf (H<sub>2</sub>O) verbrannt wird.

IPC 8 full level

**F23L 7/00** (2006.01)

CPC (source: EP KR)

**F23L 7/005** (2013.01 - EP KR); **F23L 7/007** (2013.01 - EP KR); **F23C 2900/9901** (2013.01 - EP KR); **F23L 2900/07005** (2013.01 - EP KR); **F23L 2900/07009** (2013.01 - EP KR)

Citation (applicant)

EP 1375827 A1 20040102 - SIEMENS AG [DE]

Citation (search report)

- [XAI] US 6201029 B1 20010313 - WAYCULIS JOHN J [US]
- [XAI] US 2017342860 A1 20171130 - MORISAWA YUICHI [JP], et al
- [XAI] US 2007190469 A1 20070816 - CLARK DANIEL O [US], et al

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4113008 A1 20230104**; CN 117597548 A 20240223; EP 4334644 A1 20240313; JP 2024523393 A 20240628; KR 20240027111 A 20240229; WO 2023274661 A1 20230105

DOCDB simple family (application)

**EP 21183260 A 20210701**; CN 202280046195 A 20220602; EP 2022065112 W 20220602; EP 22731254 A 20220602; JP 2023577857 A 20220602; KR 20247003540 A 20220602