

Title (en)

HYDROGEN COMBUSTION BURNER ASSEMBLY FOR A GAS COOKING ASSEMBLY AND GAS COOKING APPLIANCE HAVING A HYDROGEN COMBUSTION BURNER ASSEMBLY

Title (de)

WASSERSTOFFBRENNERANORDNUNG FÜR EINE GASKOCHANORDNUNG UND GASKOCHGERÄT MIT EINER WASSERSTOFFBRENNERANORDNUNG

Title (fr)

ENSEMBLE BRÛLEUR À COMBUSTION D'HYDROGÈNE POUR UN ENSEMBLE DE CUISSON À GAZ ET APPAREIL DE CUISSON À GAZ COMPRENANT UN ENSEMBLE BRÛLEUR À COMBUSTION D'HYDROGÈNE

Publication

**EP 4390222 A1 20240626 (EN)**

Application

**EP 22214856 A 20221220**

Priority

EP 22214856 A 20221220

Abstract (en)

There is described a hydrogen combustion burner assembly (3) for a gas cooking appliance (1) and configured to combust hydrogen. The hydrogen combustion burner assembly (3) comprises a main body (7) having an inlet opening (10) configured to be connected to a hydrogen supply, a flow channel (11) being in fluidic connection with the inlet opening (10) and configured to receive the hydrogen from the hydrogen supply and through the inlet opening (10); an enrichment chamber (12) being in fluidic connection with the flow channel (11) and being configured to receive the hydrogen through the flow channel (11) and to allow for the formation of a hydrogen atmosphere within the enrichment chamber (12) and a plurality of outlet channels (13) being in fluidic connection with the enrichment chamber (12) and an outer atmosphere (14) and configured to allow for the outflow of the hydrogen from the enrichment chamber (12).

IPC 8 full level

**F23D 14/06** (2006.01); **F24C 3/08** (2006.01)

CPC (source: EP)

**F23D 14/06** (2013.01); **F24C 3/085** (2013.01); **F23C 2900/9901** (2013.01); **F23D 2900/14062** (2013.01)

Citation (applicant)

EP 2146144 A2 20100120 - HWANG BOO-SUNG [KR]

Citation (search report)

- [XDI] EP 2146144 A2 20100120 - HWANG BOO-SUNG [KR]
- [X] US 4018553 A 19770419 - BAKER NATHANIEL R, et al
- [X] JP 2001056108 A 20010227 - OSAKA GAS CO LTD

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4390222 A1 20240626**; WO 2024133136 A1 20240627

DOCDB simple family (application)

**EP 22214856 A 20221220**; EP 2023086448 W 20231218