

Title (en)

CATALYTIC HYDROGEN BURNER SETUP

Title (de)

EINRICHTUNG EINES BRENNERS ZUR KATALYTISCHEN ERZEUGUNG VON WASSERSTOFF

Title (fr)

INSTALLATION DE BRÛLEUR D'HYDROGÈNE CATALYTIQUE

Publication

EP 2946142 A1 20151125 (EN)

Application

EP 14700860 A 20140115

Priority

- CH 1572013 A 20130115
- EP 2014050712 W 20140115

Abstract (en)

[origin: WO2014111427A1] An oxidant supply system of a hydrogen catalytic burner respectively a hydrogen catalytic burner setup are improved to show high efficiency and controllable homogenous distribution of the combustible and the oxidant, leading to a needful combustible/oxidant ratio in the combustion zone of the hydrogen catalytic burner setup. This is reached by providing a oxidant supply system comprising a gas distribution setup (1') with an oxidant diffuser (16) based on a porous open-pored ceramic foam, which distributes oxygen or air from at least one oxidant inlet in a homogenous way through hollow struts of the ceramic foam between a first catalytic hydrogen burner (10') and a second catalytic hydrogen burner (12').

IPC 8 full level

F23D 14/18 (2006.01); **F23C 13/02** (2006.01)

CPC (source: EP US)

F23C 13/02 (2013.01 - EP); **F23D 14/181** (2021.05 - EP US)

Citation (search report)

See references of WO 2014111427A1

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

DOCDB simple family (publication)

WO 2014111427 A1 20140724; EP 2946142 A1 20151125

DOCDB simple family (application)

EP 2014050712 W 20140115; EP 14700860 A 20140115