

Title (en)

GAS BURNING APPLIANCE AND METHOD FOR STARTING UP A GAS BURNING APPLIANCE

Title (de)

GASVERBRENNUNGSVORRICHTUNG UND VERFAHREN ZUM STARTEN EINER GASVERBRENNUNGSVORRICHTUNG

Title (fr)

APPAREIL DE COMBUSTION À GAZ ET PROCÉDÉ DE DÉMARRAGE D'UN APPAREIL DE COMBUSTION À GAZ

Publication

EP 4390223 A1 20240626 (EN)

Application

EP 22215283 A 20221221

Priority

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Abstract (en)

The invention relates to method for starting up a gas burning appliance (1). The method comprises an ignition sequence comprising:- activating an igniter (6) for a predetermined ignition time,- opening a gas supply (3) for a predetermined safety time to supply combustible gas to a burning chamber (2), the combustible gas being a hydrogen comprising gas,- detecting the presence of a flame by means of a flame detector (5),- closing the gas supply (3) if no flame has been detected at the end of the predetermined safety time. The combustible gas comprises more than 20 mol% of hydrogen and activation of the igniter commences at a predetermined pre-ignition time interval before opening the gas supply (3).

IPC 8 full level

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CPC (source: EP)

F23N 5/022 (2013.01); **F23N 2227/02** (2020.01)

Citation (applicant)

- EP 4015904 A1 20220622 - VAILLANT GMBH [DE]
- EP 3971475 A2 20220323 - BOSCH THERMOTECHNOLOGY LTD UK [GB]
- WO 2021078949 A1 20210429 - BEKAERT COMBUSTION TECH BV [NL]

Citation (search report)

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- [YA] US 2003087213 A1 20030508 - REIFEL ALLAN J [US], et al
- [YA] EP 0791786 A1 19970827 - KANESAKA ICHIRO [JP]
- [YA] US 4352656 A 19821005 - MICHAUD ROGER P, et al

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