

Title (en)

FLAME MONITORING SYSTEM FOR A BURNER OF A GAS APPLIANCE, AND CONTROL METHOD FOR A GAS APPLIANCE

Title (de)

FLAMMENÜBERWACHUNGSEINRICHTUNG FÜR EINEN BRENNER EINES GASGERÄTS UND STEUERUNGSVERFAHREN FÜR EIN GASGERÄT

Title (fr)

SYSTÈME DE SURVEILLANCE DE FLAMME D'UN BRÛLEUR D'UN APPAREIL À GAZ ET PROCÉDÉ DE COMMANDE D'UN APPAREIL À GAZ

Publication

EP 3534069 B1 20200701 (EN)

Application

EP 18382129 A 20180301

Priority

EP 18382129 A 20180301

Abstract (en)

[origin: EP3534069A1] Flame monitoring system for a burner of a gas appliance, the flame monitoring system comprising a thermocouple (2) adapted for being arranged next to the burner and an electromagnetic gas valve adapted for opening or closing a gas passage to said burner, the electromagnetic gas valve being electrically connected with the thermocouple (2) and said electromagnetic gas valve keeping the gas passage open when it receives a specific current from the thermocouple (2). The flame monitoring system (1) also comprises a voltage meter (4) for measuring the voltage of the thermocouple (2), and interruption means (5) configured for interrupting current flow between the thermocouple (2) and the electromagnetic gas valve during a predetermined time so that the voltage meter (4) can measure the voltage of the thermocouple (2) in vacuum, said predetermined time being such that the electromagnetic gas valve keeps the gas passage open during the interruption by means of the actual inertia of the electromagnetic gas valve.

IPC 8 full level

F23N 5/10 (2006.01); **F23D 14/72** (2006.01)

CPC (source: CN EP)

F23D 14/72 (2013.01 - EP); **F23N 5/10** (2013.01 - EP); **F23N 5/24** (2013.01 - CN); **F24C 3/126** (2013.01 - CN); **F23D 2208/00** (2013.01 - EP); **F23D 2209/00** (2013.01 - EP); **F23N 2235/14** (2020.01 - EP)

Cited by

DE102020124485A1; DE202020005706U1; DE202020105387U1; DE202020005699U1; WO2022194550A1

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

DOCDB simple family (publication)

EP 3534069 A1 20190904; **EP 3534069 B1 20200701**; CN 110220221 A 20190910; CN 110220221 B 20211112; ES 2817440 T3 20210407; PL 3534069 T3 20210111; WO 2019166680 A1 20190906

DOCDB simple family (application)

EP 18382129 A 20180301; CN 201910144681 A 20190227; ES 18382129 T 20180301; ES 2019070112 W 20190227; PL 18382129 T 20180301