

Title (en)
METHOD FOR CONTROLLING A GAS BOILER

Title (de)
VERFAHREN ZUR STEUERUNG EINES GASHEIZKESSELS

Title (fr)
PROCÉDÉ DE COMMANDE D'UNE CHAUDIÈRE À GAZ

Publication
EP 4180718 A1 20230517 (EN)

Application
EP 21207726 A 20211111

Priority
EP 21207726 A 20211111

Abstract (en)
Method (100) for controlling the operation of a combustion appliance (2), in particular a gas boiler operating at least in a first heat modulation range and a second heat modulation range, the method (100) comprising monitoring (S101) the combustion process of the appliance (2) through a sensor (6) measuring a physical value, in particular an oxygen sensor or an ionization sensor; controlling (S102) an air to fuel gas ratio in a gas mixture through a pneumatic gas valve (3) when the combustion appliance (2) operates in the first heat modulation range; and controlling (S103) the air to fuel gas ratio in a gas mixture through an electronically controlled gas valve (5) when the combustion appliance (2) operates in the second heat modulation range, wherein the method (100) comprises adjusting (S104) the electronically controlled gas valve (5) by varying a gas flow passing through said electronically controlled gas valve (5) based on a sensor signal generated by said sensor (6), when the combustion appliance (2) operates in the second heat modulation range.

IPC 8 full level
F23N 5/02 (2006.01); **F23N 5/00** (2006.01); **F23N 5/12** (2006.01)

CPC (source: EP)
F23N 5/006 (2013.01); **F23N 5/022** (2013.01); **F23N 5/027** (2013.01); **F23N 5/123** (2013.01)

Citation (search report)
• [A] WO 2021078949 A1 20210429 - BEKAERT COMBUSTION TECH BV [NL]
• [A] US 2010112500 A1 20100506 - MAIELLO DENNIS R [US], et al
• [A] EP 3499124 A1 20190619 - BOSCH GMBH ROBERT [DE]
• [A] DE 102015223681 A1 20170601 - BOSCH GMBH ROBERT [DE]

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 4180718 A1 20230517; WO 2023083734 A1 20230519

DOCDB simple family (application)
EP 21207726 A 20211111; EP 2022080940 W 20221107