

Title (en)

GAS DEVICE FOR COOKING FOOD AND METHOD FOR OPERATING SAID DEVICE

Title (de)

GASVORRICHTUNG ZUM GAREN VON LEBENSMITTELN UND VERFAHREN ZUM BETRIEB DIESER VORRICHTUNG

Title (fr)

DISPOSITIF DE GAZ POUR LA CUISSON D'ALIMENTS ET PROCÉDÉ POUR FAIRE FONCTIONNER LEDIT DISPOSITIF

Publication

EP 3771865 A1 20210203 (EN)

Application

EP 20188841 A 20200731

Priority

IT 201900013521 A 20190731

Abstract (en)

A gas device for cooking food is provided with:• a main gas supply duct (2; 22) configured to be coupled to a domestic gas supply circuit (3; 23);• at least one gas burner (4; 24) connected to the main gas supply duct (2; 22) by at least one respective connection valve (5; 25);• an ignition device (7; 27) configured to selectively generate a spark (11d) in the area of said at least one burner (4; 24);• a safety assembly (9; 29) comprising:• a first safety system comprising a flame sensor (16; 36), which is arranged close to the burner (4; 24), and a first control device, which is configured to close the respective connection valve (5; 25) when the flame sensor (16; 36) detects that the flame has extinguished;• a second safety system comprising: a safety valve (12; 32) of the ON/OFF type located along the main gas supply duct (2; 22) upstream of said at least one connection valve (5; 25); at least one control element (16; 36, 37); and a second control device (13; 33) configured to regulate the position of the safety valve (12; 32); the second control device (13; 33) being configured to open the safety valve (12; 32) when the ignition device (7; 27) is activated and to close the safety valve (12; 32) in response to the operating conditions of the control element (16; 36, 37) .

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

- WO 2009146730 A2 20091210 - COPRECITEC SL [ES], et al
- JP 2011047611 A 20110310 - HARMAN PRO KK

Citation (search report)

- [XYI] JP 2015219002 A 20151207 - RINNAI KK
- [X] JP 2015014415 A 20150122 - RINNAI KK
- [X] JP 2019066119 A 20190425 - RINNAI KK
- [Y] JP S60235918 A 19851122 - MATSUSHITA ELECTRIC IND CO LTD
- [Y] WO 2007064893 A2 20070607 - ROBERTSHAW CONTROLS CO [US], et al
- [A] WO 2009146730 A2 20091210 - COPRECITEC SL [ES], et al
- [A] JP 2011047611 A 20110310 - HARMAN PRO KK
- [A] EP 0790467 A1 19970820 - EATON SA MONACO [MC]

Citation (examination)

JP 2003156213 A 20030530 - HARMAN PRO KK

Cited by

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Designated contracting state (EPC)

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