

Title (en)

Method and device for controlling the size of the flame of a gas cooking apparatus

Title (de)

Verfahren und Vorrichtung zum Steuern der Flammengrösse gasbetriebener Koch- oder Backgeräte

Title (fr)

Procédé et dispositif de commande de la grandeur de la flamme des appareils de cuisson à gaz

Publication

**EP 0836054 B1 20011219 (DE)**

Application

**EP 97117113 A 19971002**

Priority

DE 19641920 A 19961011

Abstract (en)

[origin: EP0836054A1] The regulator of a gas burner (3) has two parallel gas feeds (4,5). One feed (4) has a flow restriction (6) in series with an on/off solenoid valve (8) while the other feed (5) has a switching solenoid (7) in series with a buffer volume (9). The switching solenoid provides a variable mean flow by varying the switching frequency or by varying the spatial ratio of the on/off periods. The buffer volume is sufficiently large to even out the pressure variation from the switching valve. The flow restriction provides a between one sixth and one twentieth of the maximum flow through the switching valve ie. the fully open flow through the switching valve.

IPC 1-7

**F23N 1/00**

IPC 8 full level

**F23N 1/00** (2006.01)

CPC (source: EP)

**F23N 1/005** (2013.01); **F24C 3/126** (2013.01)

Cited by

US8001957B2; CN104515156A; EP3760929A4; DE19949600A1; EP2189719A3; WO0127537A1; US9645585B2; US7669590B2; US11592185B2; WO2007020189A1; WO2005031215A1; WO2009040243A3

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