

Title (en)
IMPROVED THERMOSTAT

Title (de)
VERBESSERTES THERMOSTAT

Title (fr)
THERMOSTAT PERFECTIONNÉ

Publication
EP 3440406 B1 20200212 (EN)

Application
EP 17720573 A 20170403

Priority
• IT UA20162288 A 20160404
• IB 2017051889 W 20170403

Abstract (en)
[origin: WO2017175110A1] A safety thermostat for gas cooking ovens comprising a body (2) provided with an inlet (13) fluidically connectable to a gas feeding source, characterized in that it comprises within said body: - a first cavity (4) fluidically communicating with said inlet (13) and housing a normally closed safety valve (6) inside, - a second cavity (20) fluidically communicating with said first cavity (4) and housing therein an adjustment valve (22) of the gas flow coming from said first cavity (4), said adjustment valve comprising a slider (22) axially movable within said second cavity between a first closing position of a passage towards a third cavity (56) and a second opening position of said passage, - elastic means (53) acting on said slider (22) to push it towards said second opening position, - at least one third cavity (56, 80), which houses a normally closed cut-off valve (58, 82) and which fluidically communicates with at least one burner (68, 90) of the oven, - a heat sensitive element (40) acting on said slider (22), as a function of the temperature intended to be detected by a sensor (44) applicable to said oven, to push said slider (22) towards said first closing position in contrast with said elastic means (53), - means (24, 38, 39, 48, 61, 92) for causing the opening of said safety valve (6) and of said cut-off valve (58, 82) and the adjustment of the position of said slider (22) to control the gas flow through said at least one third cavity (56, 80) in this manner.

IPC 8 full level
F23N 1/00 (2006.01); **F23N 5/10** (2006.01)

CPC (source: EP)
F23N 1/005 (2013.01); **F23N 5/107** (2013.01); **F23N 2235/14** (2020.01); **F23N 2235/16** (2020.01); **F23N 2235/18** (2020.01)

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)
WO 2017175110 A1 20171012; EP 3440406 A1 20190213; EP 3440406 B1 20200212; EP 3440406 B8 20200527; ES 2790407 T3 20201027; IT UA20162288 A1 20171004

DOCDB simple family (application)
IB 2017051889 W 20170403; EP 17720573 A 20170403; ES 17720573 T 20170403; IT UA20162288 A 20160404