

Title (en)

METHOD FOR STABILIZING AN OPERATING BEHAVIOR OF A GAS BLOWER BURNER

Title (de)

VERFAHREN ZUR STABILISIERUNG EINES BETRIEBSVERHALTENS EINES GASGEBLÄSEBRENNERS

Title (fr)

PROCÉDÉ POUR STABILISER UN COMPORTEMENT EN SERVICE D'UN BRÛLEUR À GAZ À AIR SOUFFLÉ

Publication

EP 2655971 A2 20131030 (DE)

Application

EP 11796728 A 20111219

Priority

- DE 102010055567 A 20101221
- EP 2011073232 W 20111219

Abstract (en)

[origin: WO2012084819A2] The method according to the invention for stabilizing an operating behavior of a power-modulating, air ratio-controlled gas blower burner, compensates for disturbances accompanying changed flow resistance in a combustion air path, burnable gas-air mixed path, heating gas path and/or waste gas path by adjusting the power modulation range. In selected operating states of the gas blower burner and in deviation from normal control operation, the burnable gas-air mixture is temporarily and briefly enriched with burnable gas and the actual flame ionization signal is observed. When a flame ionization stroke observed during enriching is smaller than a first tolerance amount, a lower permissible blower rotational speed is increased. Thereafter, the burner control returns to the normal control operation.

IPC 8 full level

F23N 3/08 (2006.01)

CPC (source: EP)

F23N 3/082 (2013.01); **F23N 5/123** (2013.01); **F23N 2233/04** (2020.01); **F23N 2233/08** (2020.01)

Citation (search report)

See references of WO 2012084819A2

Cited by

EP4092325A1; WO2022243160A1

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

DOCDB simple family (publication)

WO 2012084819 A2 20120628; WO 2012084819 A3 20131010; CN 103443547 A 20131211; CN 103443547 B 20151125; DE 102010055567 A1 20120621; DE 102010055567 B4 20120802; EP 2655971 A2 20131030; EP 2655971 B1 20160413

DOCDB simple family (application)

EP 2011073232 W 20111219; CN 201180061033 A 20111219; DE 102010055567 A 20101221; EP 11796728 A 20111219