

Title (en)

Adjustable burner equipment for a gaseous fuel.

Title (de)

Leistungsveränderbare Brenneinrichtung für einen gasförmigen Brennstoff.

Title (fr)

Installation de brûleur à combustible gazeux avec puissance changeable.

Publication

EP 0158045 A2 19851016 (DE)

Application

EP 85101655 A 19850215

Priority

DE 3407343 A 19840229

Abstract (en)

1. A burner system for a gaseous fuel having a gas supply line and an air supply line (16; 8), both of which terminate in the region of a gas and air mixing chamber (13) enclosed by a wall (18), and in said burner system the gas supply and the air supply to the mixing chamber (13) being able to be simultaneously varied in a fixed ratio of gas to air via variable cross-section ducts or ports (28; 20) by means of a mechanism which can be adjusted along the longitudinal axis in accordance with the required burner output, viz. - the gas supply by means of a displaceable conical closure member (21; 121) which protrudes through an adjustment port (20) in the gas supply line (16), and - the air supply by means of a further displaceable member (25) cooperating with the conical closure member (21), characterized in that a) the adjustment port (20) is provided in a diaphragm wall (17) fitted in the gas supply line (16), b) the conical closure member (21; 121) is rigidly joined to a cylindrical box-type component (25) which encloses said closure member and constitutes a further member, its bottom side being open and receiving the stream of gas from the gas supply line (16) and its other side incorporating a gas discharge port (27), c) the wall (18) enclosing the gas and air mixing chamber (13) is cylindrical or quasi-cylindrical and in said wall are set the ducts (28) for the air supply, and d) the box-type component (25) slides inside the wall (18).

Abstract (de)

Brenneranrichtung für einen gasförmigen Brennstoff, mit einer Brennstoff- und einer Luftzufuhrleitung (16, 38; 8), die beide im Bereich einer von einer Wandung umschlossenen Brennstoff-Luft-Mischzone (14) enden. Bei der Brenneranrichtung sind die Luft- und die Brennstoffzufuhr in die Mischzone gleichzeitig über querschnittsveränderbare Kanäle (28; 20) mittels einer entlang der Längsachse verstellbaren schieberartigen Vorrichtung (22) entsprechend der erforderlichen Brennerleistung in einem festliegenden Brennstoff-Luft-Verhältnis veränderbar. Die Gaszufuhr ist mittels eines Schließkegels (21) verstellbar, der durch eine Verstellöffnung (20) einer in die Gaszufuhrleitung eingebauten Blendenwand (17) ragt. Mittels eines mit dem Schließkegel (21) verbundenen Dosenteils (25) sind gleichzeitig die Luftzufuhrkanäle (28) der Wandung (18) der Mischzone (14) querschnittsveränderbar.

IPC 1-7

F23D 14/60

IPC 8 full level

F23D 14/60 (2006.01)

CPC (source: EP)

F23D 14/60 (2013.01)

Cited by

EP0309034A1; WO0070102A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0158045 A2 19851016; EP 0158045 A3 19861230; EP 0158045 B1 19890531; AT E43701 T1 19890615; DE 3407343 A1 19851121; DE 3407343 C2 19870115; DE 3570738 D1 19890706

DOCDB simple family (application)

EP 85101655 A 19850215; AT 85101655 T 19850215; DE 3407343 A 19840229; DE 3570738 T 19850215