

Title (en)

Safety device for gas radiation burners

Title (de)

Sicherheitseinrichtung für Gasstrahlungsbrenner

Title (fr)

Dispositif de sécurité pour des brûleurs rayonnants en gaz

Publication

EP 0708296 B1 19990421 (DE)

Application

EP 95112896 A 19950817

Priority

DE 4437510 A 19941020

Abstract (en)

[origin: EP0708296A1] The device prevents the outflow of unburnt gas, and is connected to a system igniting the gas and cutting it off if the flame goes out. The resistance is in the burner plate (2) between electrical connections (1) and is of the same material as the plate. The latter can be ceramic, with silicon carbide fibres woven into it, a bundle of these forming the resistance, while the contacts can be on the plate underside. Resistances independent of each other can be provided on the plate edge and inside it. They can be connected to an evaluation unit detecting a supply failure or short circuit from the speed of alteration of the amount of resistance.

IPC 1-7

F23D 14/12; **F23D 14/72**; **F23N 5/24**; **F24C 3/12**

IPC 8 full level

F23N 5/24 (2006.01); **F23D 14/12** (2006.01); **F23D 14/16** (2006.01); **F23D 14/72** (2006.01); **F23N 5/14** (2006.01); **F24C 3/12** (2006.01)

CPC (source: EP KR US)

F23D 14/16 (2013.01 - EP KR US); **F23D 14/725** (2013.01 - EP KR US); **F23N 5/14** (2013.01 - EP US); **F23N 5/24** (2013.01 - KR); **F24C 3/12** (2013.01 - EP US); **F24C 3/126** (2013.01 - KR); **F23D 2203/105** (2013.01 - EP KR US); **F23D 2212/103** (2013.01 - EP KR US); **F23N 2225/16** (2020.01 - EP US); **F23N 2231/06** (2020.01 - EP US)

Designated contracting state (EPC)

DE ES FR GB IT NL

DOCDB simple family (publication)

DE 4437510 C1 19960404; BR 9504459 A 19970520; DE 59505699 D1 19990527; EP 0708296 A1 19960424; EP 0708296 B1 19990421; ES 2132479 T3 19990816; JP 2852010 B2 19990127; JP H08210630 A 19960820; KR 100341090 B1 20021228; KR 960014771 A 19960522; US 5645411 A 19970708

DOCDB simple family (application)

DE 4437510 A 19941020; BR 9504459 A 19951019; DE 59505699 T 19950817; EP 95112896 A 19950817; ES 95112896 T 19950817; JP 26881195 A 19951017; KR 19950034058 A 19951005; US 54311895 A 19951013