

Title (en)

Method and apparatus for suppressing flame and pressure vibrations in a furnace

Title (de)

Verfahren und Vorrichtung zur Unterdrückung von Flammen-/Druckschwingungen bei einer Feuerung

Title (fr)

Procédé et dispositif pour supprimer des vibrations par flamme et par pression dans un four

Publication

EP 0754908 B2 20010418 (DE)

Application

EP 96109647 A 19960615

Priority

- DE 19526369 A 19950720
- DE 19542681 A 19951116

Abstract (en)

[origin: EP0754908A2] The flame (12) produced by the burner is directed into a combustion chamber. The flame is enveloped in a gas current possessing a faster flow rate in the flame spreading direction than the outer parts of the flame. The furnace has at least one gas outlet (9) in the form of an annular gap from which the gas flows out while enveloping the flame. The burner outlet is rotationally symmetrical. The gas may or may not contain fuel be air, be an inert gas especially nitrogen, water vapour or burnt off waste gas, a mixture of fuel and air with the fuel in a concentration inside or outside the inflammability limits.

IPC 1-7

F23C 7/00; **F23D 17/00**; **F23L 7/00**

IPC 8 full level

F23D 14/22 (2006.01); **F23C 7/00** (2006.01); **F23C 99/00** (2006.01); **F23D 14/02** (2006.01); **F23D 17/00** (2006.01); **F23L 7/00** (2006.01)

CPC (source: EP US)

F23C 7/00 (2013.01 - EP US); **F23D 17/00** (2013.01 - EP US); **F23L 7/00** (2013.01 - EP US); **F23D 2210/00** (2013.01 - EP US)

Citation (opposition)

Opponent :

DE 4231788 A1 19940324 - KOERTING AG [DE]

Cited by

EP1122493A3; EP1114967A1; DE102011011207A1; EP0985877A1; EP0931979A1; US6056538A; US6698209B1; WO9937951A1; DE102008006607A1; EP2092976A1

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DOCDB simple family (application)

EP 96109647 A 19960615; AT 96109647 T 19960615; CN 96110270 A 19960719; CZ 202696 A 19960708; IN 1255CA1996 A 19960710; JP 18982196 A 19960719; US 68223096 A 19960717