

Title (en)

PORTABLE BURNER FOR FUEL GAS WITH TWO MIXING TUBES

Publication

EP 0494631 A3 19921202 (DE)

Application

EP 92100132 A 19920107

Priority

DE 4100657 A 19910111

Abstract (en)

[origin: US5213494A] A portable burner (1) has a first (6) and a second mixer tube (18) for the delivery of primary and secondary air. To the first mixer tube belong an injector nozzle (2) for fuel gas and a spin producer (10). This first mixer tube (6) leads concentrically into the second mixer tube (18) larger in diameter, which has an inlet end (19) for the burner flame and aspiration points (20) for the secondary air. For the achievement of a thorough mixing of hot and cold gases and a low mixing temperature, between the outlet end (13) of the first mixer tube (6) and the inlet end (19) of the second mixer tube (18) there is disposed a filler body (16) filling the radial distance between the two tube ends and having a radial end face (21) from which the outlet end (13) of the first mixer tube (6) protrudes by a given amount "s." The aspiration points (20) for the secondary air are disposed exclusively in the area of the outlet end (13) of the first mixer tube (6) and aimed radially at the nozzle axis (A-A). As a result the secondary air impinges vertically on the initial length of the burner flame. Furthermore the second mixer tube (18) has between the second aspiration points (20) and its outlet end (23) a closed circumferential portion (18a) whose length is at least three times the axial length of the second aspiration points (20).

IPC 1-7

F23D 14/64; **F23D 23/00**

IPC 8 full level

F23D 14/38 (2006.01); **F23D 14/64** (2006.01); **F23D 23/00** (2006.01)

CPC (source: EP US)

F23D 14/38 (2013.01 - EP US); **F23D 14/64** (2013.01 - EP US); **F23D 23/00** (2013.01 - EP US)

Citation (search report)

- [AD] DE 2254891 B2 19760701
- [AD] EP 0240751 A2 19871014 - ROTHENBERGER GMBH CO [DE]
- [A] DE 2645263 A1 19780413 - WARDT VOLKER
- [A] CH 212284 A 19401115 - ZUBERBUEHLER ALBERT [CH]

Designated contracting state (EPC)

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DOCDB simple family (publication)

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