

Title (en)
Blue flame burner

Title (de)
Blaubrenner

Title (fr)
Brûleur à flamme bleue

Publication
EP 0947769 A3 20000126 (DE)

Application
EP 99106458 A 19990330

Priority
DE 19814768 A 19980402

Abstract (en)
[origin: EP0947769A2] The combustion air feed (1) has a deflector (5) on it end with air-passages (2) and adjacent next to a flame tube (7) open on the combustion chamber side. The flame tube has an exhaust gas return opening (6) on a level with the fuel nozzle (3) of a nozzle connection (4). The flame tube acts as a premixing and precondensing tube over most of its length. Flame stabilizers (8) are positioned at the end of the flame tube and consist of a narrowing of the cross-section of the combustion chamber side end of the flame tube.

IPC 1-7
F23D 11/40; **F23C 9/00**

IPC 8 full level
F23C 9/00 (2006.01); **F23D 11/40** (2006.01)

CPC (source: EP)
F23C 9/006 (2013.01); **F23D 11/406** (2013.01); **F23D 2209/20** (2013.01); **F23D 2900/11402** (2013.01); **F23D 2900/11403** (2013.01)

Citation (search report)

- [Y] EP 0491079 A1 19920624 - ASEA BROWN BOVERI [CH]
- [Y] DE 4232181 A1 19940331 - MAN B & W DIESEL AG [DE]
- [AP] DE 19735345 A1 19990218 - VIESSMANN WERKE KG [DE]
- [A] EP 0410135 A1 19910130 - ELCO OEL & GASBRENNER [CH]
- [A] EP 0816755 A2 19980107 - KOEHNE HEINRICH [DE]
- [XDY] C. DÖTSCH ET H. KÖHNE: "Flamme im Umkehreinsetz stabilisiert", WÄRMETECHNICK-VERSORGUNGSTECHNICK, vol. 43, no. 3, March 1998 (1998-03-01), pages 26 - 31, XP002123359

Cited by
US2021131660A1; WO2004010050A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0947769 A2 19991006; **EP 0947769 A3 20000126**; DE 19814768 A1 19991007

DOCDB simple family (application)
EP 99106458 A 19990330; DE 19814768 A 19980402