Title (en)

Blue-flame burner with optimized combustion characteristics

Title (de)

Verbrennungsoptimierter Blaubrenner

Title (fr)

Bruleur à flamme bleue optimisant la combustion

Publication

EP 1030106 A3 20001122 (DE)

Application

EP 00111167 A 19941217

Priority

- DE 4343430 A 19931218
- DE 4430889 A 19940831
- EP 95905077 A 19941217

Abstract (en)

[origin: EP1030106A2] The burner has a housing (10) with a flame tube (14) enclosing the combustion chamber (92) and behind this is an pre-combustion chamber (48) with a central nozzle assembly (24) from where the fuel stream broadens out within the combustion chamber. A dividing wall separates a fan in the pre-combustion chamber from the combustion chamber, the fan forcing sufficient air (102) through for approximately stoichiometric combustion with a blue flame. There is a second stream of combustion air (106) entering the chamber a short distance away from the first stream and radially outside it. Its purpose is to stabilise recirculation in the chamber.

IPC 1-7

F23D 11/40; F23C 9/00

IPC 8 full level

F23C 9/00 (2006.01); **F23D 11/28** (2006.01); **F23D 11/40** (2006.01)

CPC (source: EP)

F23C 9/00 (2013.01); **F23C 9/006** (2013.01); **F23D 11/28** (2013.01); **F23D 11/40** (2013.01); F23C 2202/40 (2013.01)

Citation (search report)

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AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

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