

Title (en)  
Premix burner

Title (de)  
Vormischbrenner

Title (fr)  
Brûleur à prémélange

Publication  
**EP 1070914 B1 20031203 (DE)**

Application  
**EP 99114376 A 19990722**

Priority  
EP 99114376 A 19990722

Abstract (en)  
[origin: EP1070914A1] The burner has a heat shield (41) fixed to a carrier structure (42) so that differential thermal expansions can take place with as little hindrance as possible. The carrier structure should have apertures (11) for cooling air (1B) to provide cooling of the heat shield. The burner gas input may be in the form of tubes (32) passing through apertures (31) in the vortex creator.

IPC 1-7  
**F23C 7/00**; **F23D 17/00**; **F23R 3/60**; **F23R 3/28**; **F23R 3/34**

IPC 8 full level  
**F23C 7/00** (2006.01); **F23D 17/00** (2006.01); **F23R 3/28** (2006.01); **F23R 3/34** (2006.01); **F23R 3/60** (2006.01)

CPC (source: EP US)  
**F23C 7/002** (2013.01 - EP US); **F23D 17/002** (2013.01 - EP US); **F23R 3/286** (2013.01 - EP US); **F23R 3/343** (2013.01 - EP US);  
**F23R 3/60** (2013.01 - EP US); **F23C 2900/07002** (2013.01 - EP US); **F23D 2211/00** (2013.01 - EP US); **F23D 2214/00** (2013.01 - EP US)

Cited by  
US7871262B2; EP1389713A1; CN111503659A; US7140183B2; WO2004015332A1

Designated contracting state (EPC)  
DE GB

DOCDB simple family (publication)  
**EP 1070914 A1 20010124**; **EP 1070914 B1 20031203**; DE 59907942 D1 20040115; US 6331109 B1 20011218

DOCDB simple family (application)  
**EP 99114376 A 19990722**; DE 59907942 T 19990722; US 62425800 A 20000724