

Title (en)

PROCESS AND DEVICE FOR BURNING FUEL IN AIR

Title (de)

VORRICHTUNG UND VERFAHREN ZUR VERBRENNUNG EINES BRENNSTOFFS IN LUFT

Title (fr)

DISPOSITIF ET PROCEDE POUR LA COMBUSTION D'UN COMBUSTIBLE DANS L'AIR

Publication

EP 0925470 A2 19990630 (DE)

Application

EP 97918906 A 19970826

Priority

- DE 9701852 W 19970826
- DE 19636556 A 19960909
- DE 19640818 A 19961002

Abstract (en)

[origin: WO9811383A2] A process and device are disclosed for burning fuel (6) in air. The device has a ring-shaped channel (4) for guiding air in a meridional stream (5) with respect to an axis (1), a swirl grid (9) for impressing a swirl (10) onto the stream (5) and means (11, 12, 16) for mixing fuel (6) into the stream (5) and forming a substantially homogeneous mixture. Also provided is a means (13, 17, 18) for slowing down a part of the stream (5) which is external in the radial direction from the axis (1) with respect to other parts of the stream (5). The device is in particular designed as a premixture burner, for use for example in a gas turbine installation.

IPC 1-7

F23C 7/00

IPC 8 full level

F23D 5/00 (2006.01); **F23C 7/00** (2006.01); **F23C 99/00** (2006.01); **F23D 14/02** (2006.01); **F23D 17/00** (2006.01); **F23L 1/00** (2006.01)

CPC (source: EP US)

F23C 7/004 (2013.01 - EP US); **F23D 14/02** (2013.01 - EP US); **F23C 2900/07001** (2013.01 - EP US)

Cited by

EP1400752A1; WO02095293A1; US7051530B2

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

WO 9811383 A2 19980319; WO 9811383 A3 20021010; DE 59701235 D1 20000413; EP 0925470 A2 19990630; EP 0925470 A3 20021127; EP 0925470 B1 20000308; JP 2002513458 A 20020508; JP 4130475 B2 20080806; RU 2190804 C2 20021010; US 6152724 A 20001128

DOCDB simple family (application)

DE 9701852 W 19970826; DE 59701235 T 19970826; EP 97918906 A 19970826; JP 51311798 A 19970826; RU 99107024 A 19970826; US 26544399 A 19990309