

Title (en)
Self igniting combustion chamber

Title (de)
Brennkammer mit Selbstzündung

Title (fr)
Chambre de combustion à allumage automatique

Publication
EP 0687860 B1 20010228 (DE)

Application
EP 95810291 A 19950503

Priority
DE 4417538 A 19940519

Abstract (en)
[origin: DE4417538A1] The combustion chamber has an inflow zone and a combustion zone in succession in the same flow direction. The inflow zone (5) has vortex generators (100,101,102). Several of these are fitted against each other around the through-flow channel. There is a pre-mixing zone (7) downstream of the inflow zone. In this zone, a secondary jet of liquid fuel (9) can be blown into the main gas fuel flow (4). There is a step (12) in the cross section between the pre-mixing zone and the combustion zone (11). This step sets the initial flow cross section of the combustion zone.

IPC 1-7
F23D 17/00; **F23R 3/18**; **F23R 3/34**; **F23R 3/36**

IPC 8 full level
F23C 7/02 (2006.01); **F23D 17/00** (2006.01); **F23M 9/00** (2006.01); **F23M 9/02** (2006.01); **F23R 3/18** (2006.01); **F23R 3/34** (2006.01); **F23R 3/36** (2006.01)

CPC (source: EP US)
F23M 9/00 (2013.01 - EP US); **F23M 9/02** (2013.01 - EP US); **F05B 2240/122** (2013.01 - EP US); **F23R 2900/03341** (2013.01 - EP US)

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EP 0620362 A1 19941019 - ABB MANAGEMENT AG [CH]

Cited by
EP1207350A3; US6688111B2

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
DE 4417538 A1 19951123; CN 1106531 C 20030423; CN 1117567 A 19960228; DE 59509043 D1 20010405; EP 0687860 A2 19951220; EP 0687860 A3 19970423; EP 0687860 B1 20010228; JP 3631802 B2 20050323; JP H07310909 A 19951128; US 5593302 A 19970114

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