

Title (en)

Burner for a gas turbine combustor

Title (de)

Brenner für eine Gasturbinenbrennkammer

Title (fr)

Brûleur pour une chambre de combustion de turbine à gaz

Publication

**EP 1484553 A3 20061129 (DE)**

Application

**EP 04090216 A 20040602**

Priority

DE 10326720 A 20030606

Abstract (en)

[origin: EP1484553A2] The burner has a core-air annular channel (11) concentrically round the atomizer jet (10) of the support burner and also round the main-air annular channel (4) which creates the weak mixture. A flame stabilizing ring (13) is provided in the adjacent end regions of the main-air and core-air channels. with cross-section surface widening conically towards the combustion chamber to create a recirculation zone (17).

IPC 8 full level

**F23D 11/10** (2006.01); **F23R 3/14** (2006.01); **F23R 3/18** (2006.01); **F23R 3/28** (2006.01); **F23R 3/30** (2006.01); **F23R 3/34** (2006.01)

CPC (source: EP US)

**F23R 3/18** (2013.01 - EP US); **F23R 3/286** (2013.01 - EP US); **F23R 3/343** (2013.01 - EP US); **F23D 2209/20** (2013.01 - EP US); **F23D 2900/00008** (2013.01 - EP US); **F23D 2900/00018** (2013.01 - EP US)

Citation (search report)

- [XY] JP S59129330 A 19840725 - HITACHI LTD
- [Y] DE 1254911 B 19671123 - DAIMLER BENZ AG
- [Y] DE 3739197 A1 19880601 - BBC BROWN BOVERI & CIE [CH]
- [Y] EP 0845634 A2 19980603 - TOSHIBA KK [JP]
- [A] EP 1134494 A1 20010919 - MITSUBISHI HEAVY IND LTD [JP]
- [A] EP 1186832 A2 20020313 - GEN ELECTRIC [US]
- [DA] EP 0660038 A2 19950628 - ROLLS ROYCE PLC [GB]

Cited by

US10288293B2; US10190774B2; US10451282B2; WO2010008633A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL HR LT LV MK

DOCDB simple family (publication)

**EP 1484553 A2 20041208**; **EP 1484553 A3 20061129**; **EP 1484553 B1 20110928**; DE 10326720 A1 20041223; US 2005028526 A1 20050210; US 7621131 B2 20091124

DOCDB simple family (application)

**EP 04090216 A 20040602**; DE 10326720 A 20030606; US 86065904 A 20040604