

Title (en)
Burner component for a gas turbine burner

Title (de)
Brennerkomponente für einen Gasturbinenbrenner

Title (fr)
Composants d'un brûleur pour un brûleur de turbine à gaz

Publication
EP 1990580 A1 20081112 (DE)

Application
EP 07009447 A 20070510

Priority
EP 07009447 A 20070510

Abstract (en)
The burner component for a gas turbine burner, comprises a carrier (3), a fuel nozzle (7) mounted on the carrier and a fuel distributing system (19), which is intended for supplying the fuel nozzle with fuel into the carrier and has a channel (15) and a cover strip (25) for covering the channel. The burner component is made of a ferritic material, which has heat conductivity of greater than 18 J/(Kms), specific heat capacity of greater than 510 J/(kgK) and co-efficient of thermal expansion of less than 14.8 (10⁻⁶/K), at 400[deg] C. The cover strip and the carrier are made of same materials. The burner component for a gas turbine burner, comprises a carrier (3), a fuel nozzle (7) mounted on the carrier and a fuel distributing system (19), which is intended for supplying the fuel nozzle with fuel into the carrier and has a channel (15) and a cover strip (25) for covering the channel. The burner component is made of a ferritic material, which has heat conductivity of greater than 18 J/(Kms), specific heat capacity of greater than 510 J/(kgK) and co-efficient of thermal expansion of less than 14.8 (10⁻⁶/K), at 400[deg] C. The cover strip and the carrier are made of same materials. The burner component is provided with an anti-corrosive coating, which has a titanium nitride layer between the anti-corrosive coating and the ferritic material.

Abstract (de)
Es wird eine Brennerkomponente (1) für einen Gasturbinenbrenner zur Verfügung gestellt. Die Brennerkomponente (1) ist aus einem ferritischen Werkstoff hergestellt, der bei 400 °C eine Wärmeleitfähigkeit von mehr als 18 J/(Kms), eine spezifische Wärmekapazität von mehr als 510 J/(kgK) und einen Wärmeausdehnungskoeffizienten von weniger als 14,8 (10⁻⁶ /K) aufweist.

IPC 8 full level
F23R 3/28 (2006.01); **F23D 11/36** (2006.01); **F23R 3/60** (2006.01)

CPC (source: EP)
F23D 11/36 (2013.01); **F23R 3/283** (2013.01); **F23R 3/60** (2013.01); **F23D 2211/00** (2013.01); **F23D 2212/20** (2013.01); **F23D 2213/00** (2013.01)

Citation (search report)
• [XA] DE 29511790 U1 19961114 - BOSCH GMBH ROBERT [DE]
• [X] EP 0990845 A2 20000405 - BOSCH GMBH ROBERT [DE]

Cited by
EP2402652A1; EP2189720A1; WO2010057709A1; WO2010003816A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1990580 A1 20081112; WO 2008138815 A1 20081120

DOCDB simple family (application)
EP 07009447 A 20070510; EP 2008055586 W 20080507