

Title (en)

Lean pre-mix burner of a gas turbine engine with a concentric, ring-shaped central body

Title (de)

Magervormischbrenner eines Gasturbinenriebwerks mit einem konzentrischen, ringförmigen Zentralkörper

Title (fr)

Brûleur de prémélange maigre d'un moteur à turbine à gaz doté d'un corps central concentrique et annulaire

Publication

EP 2385304 A3 20141119 (DE)

Application

EP 11003576 A 20110502

Priority

DE 102010019772 A 20100507

Abstract (en)

[origin: EP2385304A2] The burner has an annular central body (2) provided with an annular duct (4) that is connected to a supply line (3) when the central body is concentric to a burner center axis (1). A film applicator (5) conically widens at a fuel exit side and into radially inward area. A fuel exit opening is connected to the annular duct. The film applicator is provided downstream adjacent to the fuel exit opening in an area facing the fuel exit side, and includes a step-like, annular protruding area placed radially to the burner center axis, where the protruding area is formed in cone shape.

IPC 8 full level

F23R 3/14 (2006.01); **F23R 3/28** (2006.01)

CPC (source: EP US)

F23R 3/14 (2013.01 - EP US); **F23R 3/28** (2013.01 - EP US)

Citation (search report)

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- [IY] US 2007028619 A1 20070208 - SPOONER MICHAEL P [GB]
- [X] US 2007289306 A1 20071220 - SURIA FEDERICO [IT], et al
- [Y] EP 1413830 A2 20040428 - ROLLS ROYCE PLC [GB]
- [Y] US 2007137207 A1 20070621 - MANCINI ALFRED A [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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DOCDB simple family (publication)

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