

Title (en)

CAN-ANNULAR COMBUSTOR WITH STAGED AND TANGENTIAL FUEL-AIR NOZZLES FOR USE ON GAS TURBINE ENGINES

Title (de)

RINGBRENNKAMMER MIT GESTUFTEN UND TANGENTIALEN BRENNSTOFF-LUFT-DÜSEN ZUR VERWENDUNG BEI GASTURBINENMOTOREN

Title (fr)

CHAMBRE DE COMBUSTION ANNULAIRE EN FORME DE BOÎTE PRÉSENTANT DES BUSES DE CARBURANT-AIR ÉTAGÉES ET TANGENTIELLES, EN VUE D'UNE UTILISATION SUR DES MOTEURS À TURBINE À GAZ

Publication

**EP 2748444 B1 20190213 (EN)**

Application

**EP 11871243 A 20110822**

Priority

US 2011048612 W 20110822

Abstract (en)

[origin: WO2013028167A2] A combustion device used in gas turbine engines to produce propulsion or rotate a shaft for power generation includes a can-annular combustor with a system of fuel and air inlet passages and nozzles that results in an optimal combustion environment of fuel and air. Fuel, air and/or fuel-air inlets are placed at various longitudinal locations and circumferentially distributed, and direct the flow tangentially or nearly tangent to the can liner. The combustion device provides an optimal mixing of fuel and air, creates an environment for combustion that reduces pollutant emissions, reduces the need for costly pollution control devices, enhances ignition and flame stability, reduces piloting issues, and improves vibration reduction.

IPC 8 full level

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