

Title (en)

Burner, Gas Turbine and Method for Operating a Burner

Title (de)

Brenner, Gasturbine und Betrieb eines Brenners

Title (fr)

Brûleur, turbine à gaz et procédé opératoire pour un brûleur

Publication

EP 1624252 A1 20060208 (DE)

Application

EP 04018727 A 20040806

Priority

EP 04018727 A 20040806

Abstract (en)

An improved burner system for a gas turbine engine has a central duct (23) for a fuel and air mixture and surrounded by a ring duct for an outer gas flow of fuel and air. The end of the inner duct is fitted with a cowl (35) with a selected pattern of apertures (37) which ensure a damping effect for pressure pulses in the two gas feeds. The cross flow of gasses through the cowl also ensure a thicker shear zone between the two gas flows resulting in an improved burn.

IPC 8 full level

F23R 3/34 (2006.01); **F23D 14/02** (2006.01); **F23R 3/28** (2006.01)

CPC (source: EP)

F23D 14/02 (2013.01); **F23R 3/286** (2013.01); **F23R 3/346** (2013.01); **F23C 2900/06043** (2013.01); **F23R 2900/00014** (2013.01)

Citation (search report)

- [A] WO 9904196 A1 19990128 - SIEMENS AG [DE], et al
- [A] WO 9917057 A1 19990408 - SIEMENS WESTINGHOUSE POWER [US]
- [AD] DE 19839085 A1 20000302 - SIEMENS AG [DE]
- [A] DE 10104695 A1 20020808 - ALSTOM SWITZERLAND LTD [CH]

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CN105393057A; WO2015040228A1

Designated contracting state (EPC)

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