

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)  
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

DOCDB simple family (publication)  
**EP 1624252 A1 20060208**; WO 2006015968 A1 20060216

DOCDB simple family (application)  
**EP 04018727 A 20040806**; EP 2005053821 W 20050804