

Title (en)  
Burner

Title (de)  
Brenner

Title (fr)  
Brûleur

Publication  
**EP 1972851 A3 20100804 (EN)**

Application  
**EP 07015922 A 20070814**

Priority  
RU 2007109930 A 20070319

Abstract (en)  
[origin: EP1972851A2] Burner consisting of external cylindrical casing (1), an air generator with vanes (2) and a fuel distribution tube (3), creating together a cylindrical mixing chamber (4), where behind the vanes (2) fuel distribution devices in the form of pipes with slots in lengthwise arrangement for fuel supply to the mixing chamber (4) are arranged, wherein the pipes (5) are arranged parallel with the burner axis and their length (L) equipped with the slots (6) for the fuel supply into the mixing chamber (4) is calculated according to the formula:  $L = k \cdot \frac{D}{n} \cdot \frac{1}{n} \cdot N \cdot \frac{1}{\sin \alpha}$ , Where D - is the diameter of the circle in which the pipes are arranged N - is the number of pipes in the circle n - is the number of slots for fuel feeding in each pipe  $\alpha$  - is the angle of the air flow from the whirl vanes k - is the coefficient

IPC 8 full level  
**F23C 7/00** (2006.01); **F23D 14/58** (2006.01); **F23D 14/64** (2006.01); **F23R 3/28** (2006.01)

CPC (source: EP)  
**F23C 7/004** (2013.01); **F23D 14/583** (2013.01); **F23D 14/64** (2013.01)

Citation (search report)

- [A] EP 0870989 A2 19981014 - EUROP GAS TURBINES LTD [GB]
- [A] US 6164055 A 20001226 - LOVETT JEFFERY ALLAN [US], et al
- [A] EP 1193448 A2 20020403 - GEN ELECTRIC [US]
- [A] DE 10104695 A1 20020808 - ALSTOM SWITZERLAND LTD [CH]
- [A] US 5908160 A 19990601 - KRAMER STEPHEN K [US], et al

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

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