

Title (en)  
BURNER WITH VANES AND A WELL-BALANCED SECONDARY AIR SUPPLY

Publication  
**EP 0162761 B1 19880706 (FR)**

Application  
**EP 85400814 A 19850425**

Priority  
FR 8406666 A 19840427

Abstract (en)  
[origin: EP0162761A1] 1. A burner with vanes of the kind comprising an opening (3) in the wall (1) of a combustion chamber, a nozzle (4) for injection of a combustible substance through the opening and an assembly (5, 6) for distribution of secondary air of combustion comprising a plurality of deflecting vanes (5) disposed annularly around the nozzle so as to make the combustion air flow together with the combustible substance in a helical trajectory, the secondary air of combustion being injected transversely towards the vanes (5) from a plurality of at least two injectors (7) regularly distributed around the said nozzle, characterized in that to allow a supply of secondary air of combustion without an air box, the injectors and the vanes are disposed immediately behind the wall (1) of the combustion chamber (2) and in that the axial deviation of this secondary air of combustion (before its meeting with the combustible substance) is controlled by means of a circular flange (6) movable along the nozzle and presenting openings crossed by the vanes.

IPC 1-7  
**F23C 7/00**; **F23D 1/00**

IPC 8 full level  
**F23C 7/00** (2006.01); **F23D 1/00** (2006.01); **F23D 1/02** (2006.01)

CPC (source: EP)  
**F23D 1/02** (2013.01)

Designated contracting state (EPC)  
AT BE DE GB IT SE

DOCDB simple family (publication)  
**EP 0162761 A1 19851127**; **EP 0162761 B1 19880706**; AT E35572 T1 19880715; DE 3563650 D1 19880811; FR 2563611 A1 19851031; FR 2563611 B1 19870529

DOCDB simple family (application)  
**EP 85400814 A 19850425**; AT 85400814 T 19850425; DE 3563650 T 19850425; FR 8406666 A 19840427