

Title (en)  
Air injection device for forced-draught burner

Title (de)  
Luft einspritzvorrichtung für Gebläse brenner

Title (fr)  
Dispositif d'injection d'air pour brûleur à air soufflé

Publication  
**EP 0736733 A3 19970423 (FR)**

Application  
**EP 96420112 A 19960403**

Priority  
FR 9504432 A 19950407

Abstract (en)  
[origin: EP0736733A2] The air outlet of the ventilator (3) and the air inlet of the duct (7) have a thin diaphragm (29) between them. The diaphragm is of a thermally insulating material which is relatively rigid. The centre of the diaphragm is pierced by a calibrated opening (31) to allow passage of a controlled amount of blown air (D1) which is guided by a circuit (6) towards the burners. Around the calibrated opening the diaphragm has a plane surface (33) to deflect back a part of the airflow towards the ventilator. The diaphragm can be inserted between flanges on the joint.

IPC 1-7  
**F23D 14/36**

IPC 8 full level  
**F23D 14/36** (2006.01)

CPC (source: EP)  
**F23D 14/36** (2013.01)

Citation (search report)  
• [X] US 4383820 A 19830517 - CAMACHO SALVADOR L  
• [X] US 5171144 A 19921215 - GERSTMANN JOSEPH [US], et al

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB IE IT LI LU NL PT SE

DOCDB simple family (publication)  
**EP 0736733 A2 19961009; EP 0736733 A3 19970423; EP 0736733 B1 19990714**; AT E182206 T1 19990715; DE 69603213 D1 19990819; FR 2732753 A1 19961011; FR 2732753 B1 19980522

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