

Title (en)

Device for the optimization of the performance of a fan supplying air to a burner.

Title (de)

Leistungsoptimierungseinrichtung eines Gebläses zum Zuführen der Luft eines Brenners.

Title (fr)

Dispositif d'optimisation de la performance d'un ventilateur d'alimentation d'air d'un brûleur.

Publication

EP 0555795 A1 19930818 (EN)

Application

EP 93101910 A 19930208

Priority

IT VI920019 A 19920213

Abstract (en)

The invention discloses a device for the reduction of the load losses in a fan (2) supplying air to the combustion chamber (10) of a forced-air burner. Said fan (2) comprises an impeller (4) fitted within the body (3) of the fan, wherein a supply spiral-shaped channel (9) and a return channel (21) are obtained, the latter re-conveying the excess air (20) present in the area of the delivery opening (13) to the area (25) of the suction opening (11). Within the return channel (21) is arranged the device according to the invention consisting of at least one baffle plate (1) fit to guide the re-conveyed air (20) to the area (25) where it converges with the sucked-in flow (26), the ensuing motion being essentially non-turbulent. <IMAGE>

IPC 1-7

F04D 27/02; **F23D 11/00**

IPC 8 full level

F04D 27/02 (2006.01); **F23D 11/00** (2006.01)

CPC (source: EP)

F04D 27/009 (2013.01); **F23D 11/001** (2013.01)

Citation (search report)

- [Y] WO 9116544 A1 19911031 - FLAECT AB [SE]
- [Y] US 4680006 A 19870714 - FISHER LEONARD A [US]

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

EP 0555795 A1 19930818; IT 1269346 B 19970326; IT VI920019 A0 19920213; IT VI920019 A1 19930813

DOCDB simple family (application)

EP 93101910 A 19930208; IT VI920019 A 19920213