

Title (en)

Method for the generation of a homogeneous air flow in a forced-draft burner and device for its realization

Title (de)

Verfahren zum Schaffen eines homogenen Luftstromes in einem Gebläsebrenner und Gerät für seine Verwirklichung

Title (fr)

Procédé pour produire un courant d'air homogène dans un brûleur à air soufflé et moyens de mise en oeuvre

Publication

**EP 1091171 B1 20040225 (DE)**

Application

**EP 00120625 A 20000921**

Priority

DE 19948876 A 19991008

Abstract (en)

[origin: EP1091171A1] The method involves altering the structure of the air flow channel. The air flow is generated by an impeller (3) of a fan (1) in a spiral channel of the fan casing and then conducted in a perpendicular deflector into a burner casing (8) at the side, to flow through air holes into a distributor element (13) in the burning zone of the fan burner. There is an n-stage reduction of the degree of turbulence, where n is at least 2 and preferably equals 2. A first stage of the reduction at the deflector is a linear baffle (14), preferably in the form of a lamella grating. An optional second stage of the reduction is a tube baffle (22), preferably in the form of an open cylinder grating (23) open at the end to the distributor element. An optional third stage of the reduction is a circular baffle in the form a grating with small holes, which homogenises the air flow in front of the distributor element. An Independent claim is included for a device for implementing the method.

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