Title (en)

CELLULAR BLOWER

Publication

EP 0446221 B1 19930714 (DE)

Application

EP 89912400 A 19891116

Priority

DE 3840764 A 19881203

Abstract (en)

[origin: WO9006447A1] In a cellular blower with vanes (28) guided in radially extended longitudinal slots (27) in the rotor (18) which divide at least one operative chamber (21, 22) formed between the inner wall (17) of a recess (14) in the casing into low and high-pressure cells (30-33), in order to achieve a uniform temperature distribution throughout the blower, inlet apertures (34-36) are allocated to the low-pressure cells (30, 31) and arranged at opposite sides of the low-pressure cells (30, 31) so that the recooled coolant enters each low-pressure cell (30, 31) axially in opposite directions of flow. The inflow channels (38-40) opening into the inlet apertures (34-36) are of equal lengths and arranged symmetrically to the rotor spindle. The inflow channels (38 or 39, 40) which open into inlet apertures (34 or 35, 36) located on the same side branch off from an inflow chamber (41, 42). The inflow chambers (41, 42) are arranged coaxially to the rotor spindle and are preferably connected together via the hollow rotor spindle (20).

IPC 1-7

F04C 18/344; F04C 29/04

IPC 8 full level

F04C 18/344 (2006.01); **F04C 29/04** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP KR)

F04C 18/344 (2013.01 - KR); **F04C 18/3446** (2013.01 - EP); **F04C 29/042** (2013.01 - EP); **F04C 29/12** (2013.01 - EP)

Cited by

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Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

WO 9006447 A1 19900614; DE 3840764 A1 19900607; DE 58904923 D1 19930819; EP 0446221 A1 19910918; EP 0446221 B1 19930714; ES 2017397 A6 19910116; JP 2809780 B2 19981015; JP H04501901 A 19920402; KR 0148559 B1 19990115; KR 910700410 A 19910315

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