

Title (en)

AXIAL VENTILATOR WITHOUT GUIDE RING, ESPECIALLY FOR VENTILATING HEAT EXCHANGERS

Publication

EP 0143235 B1 19871216 (DE)

Application

EP 84111075 A 19840917

Priority

DE 3335649 A 19830930

Abstract (en)

[origin: EP0143235A1] 1. An axial ventilator without guide ring, particularly but not exclusively for ventilating heat exchangers, comprising a first housing part which directly surrounds a ventilator unit, and a second diffuser-housing part connected at the outflow end and of abruptly increased internal width, characterised in that at least the downstream corners at the outer edge of the vanes (S1-S8) of the ventilator unit (M; LR) are rounded (radius of curvature r) and the beginning of the abruptly increased internal width of the diffuser housing part (G2) is located at a distance in the region of $\pm 0.3 \cdot 1a$ from the point of intersection of the prolongation of the rear edge of the vane, on the one hand, and the vane chord, on the other hand, in the region of the downstream corners of the vanes (S1-S8) of the impeller (LR), where $1a$ is the chord length of the vane profile in the outer section.

IPC 1-7

F04D 29/32; **F04D 29/38**; **F04D 29/52**

IPC 8 full level

F04D 29/32 (2006.01); **F04D 29/38** (2006.01); **F04D 29/52** (2006.01)

CPC (source: EP)

F04D 29/325 (2013.01); **F04D 29/522** (2013.01)

Cited by

EP2085709A1; GB2227793A; GB2227793B; GB2210416A; GB2210416B

Designated contracting state (EPC)

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EP 0143235 A1 19850605; **EP 0143235 B1 19871216**; **EP 0143235 B2 19911023**; DE 3335649 A1 19850418; DE 3468134 D1 19880128

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