

Title (en)
AXIAL VENTILATOR

Publication
EP 0100078 B2 19930630 (DE)

Application
EP 83107227 A 19830722

Priority
DE 3227698 A 19820724

Abstract (en)
[origin: US4734015A] An axial-flow fan, particularly a small fan which is axially compact, with a scroll plate surrounding the impeller and whose inner contour has a cylindrical configuration in the vicinity of the axial median plane and extends both towards the inlet side and the outlet side in a polygonal, particularly square profile accompanied by the formation of corner areas, and with a central, coaxial core formed by the drive motor, the impeller hub and the mounting flange for the drive motor; the core thereby has an annular surface conically tapering towards the inlet side face whose axial length is at least one-third of the hub length; with respect to the axial median plane, the scroll plate is asymmetrical in the corner areas and is made cylindrical over a longer distance from the axial median plane to the inlet side than to the outlet side.

IPC 1-7
F04D 25/06; F04D 29/52; F04D 19/00

IPC 8 full level
F24F 7/013 (2006.01); **F04D 19/00** (2006.01); **F04D 25/06** (2006.01); **F04D 29/52** (2006.01)

CPC (source: EP US)
F04D 19/002 (2013.01 - EP US); **F04D 25/0613** (2013.01 - EP US); **F04D 29/526** (2013.01 - EP US)

Cited by
EP0180176A1; CN105545815A; DE3731710A1; US4806081A; FR2676256A1; US5258676A; US4737673A; USRE34456E; GB2217784A; GB2217784B; GB2227793A; GB2227793B; GB2185074A; GB2210416A; GB2185074B; GB2210416B; US4992029A

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