

Title (en)
Ventilator.

Title (de)
Ventilator.

Title (fr)
Ventilateur.

Publication
EP 0180176 B2 19950503 (DE)

Application
EP 85113684 A 19851028

Priority
DE 3439539 A 19841029

Abstract (en)
[origin: EP0180176A1] 1. Fan with a casing jacket constructed as a pipe section, with an electric drive motor mounted coaxially within the casing jacket, with spokes for fixing the drive motor stator to the casing jacket and which extend within the latter at one end thereof, with an impeller having a hub, which carries a ring of blades and has an outer face which, in the vicinity of the intake, widens conically in the flow direction and to which the blades of the ring of blades are fixed, with a flow channel which is externally bounded by the inner face of the casing jacket and internally bounded by the outer face of the hub, in which a drive motor and the impeller extend coaxially and completely within the casing jacket, in which the inner face of the casing jacket has its smallest diameter in the central area, related to the axial length of the impeller, characterized in that the outer face (13) of hub (27) is axially continuously widened over its entire length and that the inner face (15) of the casing jacket (1) has a constriction (35) extending over the entire circumference covered by the impeller (23) and following the constriction widens over the entire circumference to a larger diameter towards the suction and pressure side.

IPC 1-7
F04D 25/06; **F04D 29/54**

IPC 8 full level
F04D 25/06 (2006.01); **F04D 29/54** (2006.01)

CPC (source: EP)
F04D 25/0613 (2013.01); **F04D 29/545** (2013.01)

Cited by
US5217351A; US5695318A; EP0926057A2; WO9105169A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0180176 A1 19860507; **EP 0180176 B1 19900103**; **EP 0180176 B2 19950503**; DE 3439539 A1 19860507; DE 3575181 D1 19900208

DOCDB simple family (application)
EP 85113684 A 19851028; DE 3439539 A 19841029; DE 3575181 T 19851028