

Title (en)
RADIAL VENTILATOR.

Title (de)
RADIALLÜFTER.

Title (fr)
VENTILATEUR RADIAL.

Publication
EP 0561864 B1 19950308 (DE)

Application
EP 92900338 A 19911210

Priority
• DE 9016808 U 19901212
• EP 9102369 W 19911210
• EP 90123947 A 19901212

Abstract (en)
[origin: WO9210682A1] In a ventilator wheel (3 or 4) driven by an electromotor (1), a secondary air flow for cooling the electromotor (1) can be obtained in spite of a very simple construction and without substantially reducing the main air flow, by designing the spokes of the ventilator wheel as diagonal-axial ventilator blades (34) that suck the secondary air flow over or through the electromotor (1), which is arranged downstream of the blades in the axial direction, and that then supply the secondary air flow to the blade ring (34). Alternatively, the spokes are designed in a radially inner area as axial ventilator blades (44) that press the secondary air flow through the electromotor (1), which is arranged downstream of the blades in the axial direction, and in a radially outer area as diagonal-axial ventilator blades (45) that suck the secondary air flow in an air return channel and that then supply the secondary air flow to the blade ring (42).

IPC 1-7
F04D 25/08; **F04D 25/16**

IPC 8 full level
F04D 25/08 (2006.01); **F04D 25/16** (2006.01)

CPC (source: EP)
F04D 25/0606 (2013.01); **F04D 25/082** (2013.01); **F04D 25/166** (2013.01); **F04D 29/283** (2013.01); **F04D 29/5806** (2013.01)

Cited by
US10550847B2

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
WO 9210682 A1 19920625; DE 59104914 D1 19950413; EP 0561864 A1 19930929; EP 0561864 B1 19950308

DOCDB simple family (application)
EP 9102369 W 19911210; DE 59104914 T 19911210; EP 92900338 A 19911210