

Title (en)
RADIAL FAN

Title (de)
RADIALVENTILATOR

Title (fr)
VENTILATEUR RADIAL

Publication
EP 0912832 A1 19990506 (DE)

Application
EP 98919173 A 19980327

Priority
• DE 19713712 A 19970403
• EP 9801819 W 19980327

Abstract (en)
[origin: DE19713712C1] The invention relates to a radial fan, specially a ventilator for the cooling system in a motor vehicle, comprising a rotor (3) with radial blades (4), a nozzle-shaped covering disc (5), an air guide ring (6) fixed thereon, a rotor base and a stationary inflow nozzle (8). The inventive radial fan (1) chiefly displays enhanced tolerance between the rotating and stationary parts without incurring any notable loss in performance. This is achieved by providing an axial air gap (10) between the covering disc(5) and the air guide ring (6) rotating therewith.

IPC 1-7
F04D 17/16; **F04D 29/16**

IPC 8 full level
F01P 5/02 (2006.01); **B60H 1/32** (2006.01); **F04D 17/16** (2006.01); **F04D 29/16** (2006.01); **F04D 29/28** (2006.01); **F04D 29/42** (2006.01); **F04D 29/44** (2006.01); **F28D 1/04** (2006.01)

CPC (source: EP US)
F04D 29/281 (2013.01 - EP US); **F04D 29/4213** (2013.01 - EP US); **F28D 1/0426** (2013.01 - EP US); **F28D 2021/0082** (2013.01 - EP US); **F28D 2021/0084** (2013.01 - EP US); **F28D 2021/0089** (2013.01 - EP US); **F28D 2021/0094** (2013.01 - EP US)

Citation (search report)
See references of WO 9845600A1

Designated contracting state (EPC)
DE ES FR GB IT NL SE

DOCDB simple family (publication)
DE 19713712 C1 19980416; DE 59809554 D1 20031016; EP 0912832 A1 19990506; EP 0912832 B1 20030910; ES 2206921 T3 20040516; JP 2000513067 A 20001003; US 6164909 A 20001226; WO 9845600 A1 19981015

DOCDB simple family (application)
DE 19713712 A 19970403; DE 59809554 T 19980327; EP 9801819 W 19980327; EP 98919173 A 19980327; ES 98919173 T 19980327; JP 54233098 A 19980327; US 19499398 A 19981203