

Title (en)
Rotor

Title (de)
Lauftrad

Title (fr)
Roue

Publication
EP 1741934 B1 20150610 (DE)

Application
EP 06013821 A 20060704

Priority
• DE 102005031472 A 20050704
• DE 102005041148 A 20050830

Abstract (en)
[origin: EP1741934A1] An automobile air conditioning system or heater has a rotating blower fan. The circular fan disc has a central hub with a first inner array of radial blades, and a second outer array of essentially radial blades terminating in an outer ring in-line with silts aligned with the hub axis. Adjacent blades in the outer ring are separated by gaps forming air flow passages which are convergent. The outer blades have a thick leading edge that tapers to a thin cross-section towards the center. The ratio of blade maximum thickness to chord is greater than 0.25. The fan is made of plastic or a light metal.

IPC 8 full level
F04D 29/28 (2006.01); **F04D 29/30** (2006.01)

CPC (source: EP)
F04D 29/283 (2013.01); **F04D 29/30** (2013.01)

Citation (examination)
US 5988979 A 19991123 - WANG JUI-SHANG [TW]

Cited by
CN102287399A; CN106287959A; CN110494654A; EP2639458A4; CN107313977A; WO2007093274A1; TWI661131B

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1741934 A1 20070110; EP 1741934 B1 20150610

DOCDB simple family (application)
EP 06013821 A 20060704