

Title (en)
Shrouded fan

Title (de)
Mantellüfter

Title (fr)
Ventilateur à virole

Publication
EP 1619390 A3 20101006 (DE)

Application
EP 05012946 A 20050616

Priority
DE 102004034813 A 20040719

Abstract (en)
[origin: EP1619390A2] The jacket-type ventilator has a fan wheel (1) consisting of a hub (2) from which projects fan blades (3, 3'), and a ventilator jacket (5) passing round the ends of the blades remote from the hub. The blades are at least partly insulated from each other as regards vibration. Only some of the blades may be rigidly connected to the jacket, while others have an air gap (6) between their ends and the jacket.

IPC 8 full level
F04D 29/32 (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP)
F04D 29/326 (2013.01); **F04D 29/668** (2013.01)

Citation (search report)

- [XA] US 4930984 A 19900605 - KESEL BRUNO [DE], et al
- [XA] US 4655686 A 19870407 - NONNENMANN MANFRED [DE], et al
- [X] EP 0583091 A2 19940216 - VALEO THERMIQUE MOTEUR SA [FR]
- [X] DE 8612292 U1 19870102
- [X] FR 2772830 A1 19990625 - VALEO THERMIQUE MOTEUR SA [FR]

Cited by
US9945429B2; EP3156680A3

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 MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR LV MK YU

DOCDB simple family (publication)
EP 1619390 A2 20060125; EP 1619390 A3 20101006; EP 1619390 B1 20160928; DE 102004034813 A1 20060316;
DE 102004034813 B4 20120906

DOCDB simple family (application)
EP 05012946 A 20050616; DE 102004034813 A 20040719