

Title (en)  
Shrouded fan

Title (de)  
Mantellüfter

Title (fr)  
Ventilateur à virole

Publication  
**EP 1619390 B1 20160928 (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)

Cited by  
EP3156680A3; US9945429B2

Designated contracting state (EPC)  
DE FR IT NL SE

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