

Title (en)  
Cooling fan

Title (de)  
Lüfter eines Kühlgebläses

Title (fr)  
Ventilateur de refroidissement

Publication  
**EP 1519052 B1 20070117 (DE)**

Application  
**EP 04021424 A 20040909**

Priority  
DE 10343894 A 20030919

Abstract (en)  
[origin: EP1519052A2] A ventilator (1) for a cooling blower in a motor vehicle heat transfer unit comprises a fan in the air stream direction behind the heat transfer unit, especially in the rim of a ventilation hood. The ventilator comprises a hub (2) with surrounding fan blades (3) and the hub has air through holes (5) that are adjustable in area by movable closing elements (7).

IPC 8 full level  
**F04D 29/58** (2006.01); **F04D 29/32** (2006.01)

CPC (source: EP)  
**F04D 29/329** (2013.01); **F04D 29/582** (2013.01)

Cited by  
EP3892860A1; JPWO2016121144A1; US2018112675A1; US10975882B2; WO2016121144A1; EP3315788A1; DE102016012801A1; US11060528B2

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 1519052 A2 20050330; EP 1519052 A3 20050720; EP 1519052 B1 20070117**; DE 10343894 A1 20050512; DE 502004002659 D1 20070308

DOCDB simple family (application)  
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