

Title (en)  
Cooling fan

Title (de)  
Lüfter eines Kühlgebläses

Title (fr)  
Ventilateur de refroidissement

Publication  
**EP 1519052 A3 20050720 (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 1-7  
**F04D 29/58**; **F04D 29/32**

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

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

Citation (search report)  
• [A] FR 2815676 A1 20020426 - FAURECIA IND [FR]  
• [A] US 3385516 A 19680528 - OMOHUNDRO WILLIAM A  
• [A] DE 2951775 A1 19800703 - NISSAN MOTOR  
• [A] GB 2265420 A 19930929 - TOSHIBA KK [JP]

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

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

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

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