

Title (en)  
Damped fan

Title (de)  
Gedämpfter Lüfter

Title (fr)  
Ventilateur amorti

Publication  
**EP 1617085 A1 20060118 (DE)**

Application  
**EP 05014242 A 20050630**

Priority  
DE 102004034472 A 20040715

Abstract (en)  
The axial fan (1) for the cooling of especially electrical and/or electronic components in a computer, has a fan housing (2) which in the axial direction has a rectangular cross section and fastening holes (3) in its four corners for fastening of the fan to a component to be cooled or to a housing containing such a component. At least one elastic damping element (9) is integrated into the fan and is installed in such a way that it is effective between the fan impeller (6) and fastening holes. A damping component may be provided in each corner of the housing, with the fastening hole provided inside the damping element. An independent claim is included for a computer, especially a PC, which incorporates the aforesaid cooling fan.

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

CPC (source: EP)  
**F04D 25/0613** (2013.01); **F04D 29/542** (2013.01); **F04D 29/668** (2013.01)

Citation (applicant)  
• DE 20120225 U1 20020228 - VERAX VENTILATOREN GMBH [DE]  
• US 4807718 A 19890228 - LOTZ ROBERT [US]  
• GB 2107787 A 19830505 - WRIGHT BARRY CORP

Citation (search report)  
• [X] US 4807718 A 19890228 - LOTZ ROBERT [US]  
• [X] GB 2107787 A 19830505 - WRIGHT BARRY CORP  
• [A] WO 03089858 A1 20031030 - MULTIBRAS ELETRODOMESTICOS SA [BR], et al  
• [A] US 6351380 B1 20020226 - CURLEE JAMES DON [US], et al  
• [A] DE 3809627 A1 19891005 - SEMPERIT AG HOLDING [AT]  
• [A] WO 0199256 A1 20011227 - BOSCH GMBH ROBERT [DE], et al

Citation (third parties)  
Third party :  
• CN 2480899 Y 20020306 - DAZHONG COMPUTER CO LTD [CN]  
• CN 1456037 A 20031112 - ZALMAN TECH CO LTD [KR]  
• CN 2625959 Y 20040714 - YEN SUN TECHNOLOGY CORP [CN]  
• CN 2461058 Y 20011121 - SHENDA COMP CO LTD [CN]  
• CN 2625958 Y 20040714 - YEN SUN TECHNOLOGY CORP [CN]  
• CN 2668903 Y 20050105 - CHEN ZHENGANG [CN]  
• CN 2627262 Y 20040721 - YEN SUN TECHNOLOGY CORP [CN]  
• CN 2668903 K5

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DOCDB simple family (publication)  
**EP 1617085 A1 20060118; EP 1617085 B1 20070411; EP 1617085 B2 20170111**; AT E359446 T1 20070515; DE 102004034472 A1 20060209; DE 502005000572 D1 20070524; ES 2285608 T3 20071116

DOCDB simple family (application)  
**EP 05014242 A 20050630**; AT 05014242 T 20050630; DE 102004034472 A 20040715; DE 502005000572 T 20050630; ES 05014242 T 20050630