

Title (en)
HEAT RADIATION FAN

Title (de)
HITZESTRAHLUNGSLÜFTER

Title (fr)
VENTILATEUR À RAYONNEMENT THERMIQUE

Publication
EP 2518327 A4 20170802 (EN)

Application
EP 10838529 A 20100223

Priority
• CN 200920278237 U 20091221
• CN 2010070710 W 20100223

Abstract (en)
[origin: EP2518327A1] A cooling fan, which may be installed on a corresponding position of the cooling fins of a CPU or a cooling hole-plate of a computer mainframe, includes: a fan body (3), a fan frame (2) and a fan impeller (1). The fan frame (2) is circular in shape. The fan body (3) is arranged along the outer circumference of the fan frame (2). The fan impeller (1) is installed in the fan frame (2). A rubber layer (4), which is formed by secondary injection molding, is arranged at the outer surface of the fan body (3) and the contact parts between the cooling fins and the upper and lower edges of the fan frame (2), respectively. Through holes (31) are provided at the upper and lower parts of four end corners of the fan body (3), respectively, and rubber layers are also provided at the inner walls of the through holes, so that after secondary injection molding, the upper edges of the through holes are made level with the corresponding upper and lower edges of the fan frame (2). The present invention can achieve flexible touch between the cooling fan and the cooling fins or the cooling hole-plate of a computer mainframe, thereby effectively offsetting longitudinal and transverse impact and vibration and reducing noise.

IPC 8 full level
F04D 29/66 (2006.01)

CPC (source: EP)
F04D 25/0613 (2013.01); **F04D 29/522** (2013.01); **F04D 29/601** (2013.01); **F04D 29/668** (2013.01); **F05D 2300/431** (2013.01)

Citation (search report)
• [XY] DE 202009003887 U1 20090702 - ENERMAX TECHNOLOGY CORP [TW]
• [X] CN 2492876 Y 20020522 - XINFU INTERNAT CO LTD [CN]
• [X] US 2006056966 A1 20060316 - LIU CHIH-HUNG [TW]
• [XY] US 2009147475 A1 20090611 - XU HONG-BO [CN]
• [YA] US 2007154300 A1 20070705 - LIANG CHIEN-FA [TW]
• [YA] US 2007237625 A1 20071011 - LIANG CHIEN-FA [TW]
• [A] DE 202009003591 U1 20090709 - DYNAEON IND CO LTD [TW]
• [A] US 2004010351 A1 20040115 - MOHIUDDIN AHMED [US], et al
• See references of WO 2011075963A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2518327 A1 20121031; EP 2518327 A4 20170802; EP 2518327 B1 20190814; CN 102102678 A 20110622; CN 102102678 B 20140917; CN 201650793 U 20101124; WO 2011075963 A1 20110630

DOCDB simple family (application)
EP 10838529 A 20100223; CN 2010070710 W 20100223; CN 201010002245 A 20100112; CN 201020002133 U 20100112