

Title (en)
ELECTRICALLY DRIVEN AIR PUMP AND METHOD FOR THE PRODUCTION THEREOF

Title (de)
ELEKTRISCH ANGETRIEBENE LUFTPUMPE UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)
POMPE A AIR A COMMANDE ELECTRIQUE ET SON PROCEDE DE PRODUCTION

Publication
EP 1576293 A1 20050921 (DE)

Application
EP 03788774 A 20031107

Priority
• DE 0303678 W 20031107
• DE 10259179 A 20021218

Abstract (en)
[origin: WO2004057195A1] The invention relates to a method for producing an electrically driven air pump (10), especially a method for producing a secondary air pump (10) for a motor vehicle comprising an internal combustion engine. Said air pump (10) is provided with a housing (12), within which a pump mechanism (13) that encompasses at least one ventilator wheel (36, 38), and an electric motor (16) that drives the at least one ventilator wheel (36, 28) are disposed. The inventive air pump (10) is balanced in the mounted state of the electric motor (16) in the housing (12) by balancing on at least two planes (A, B) that are located at an axial distance from each other. The invention further relates to an electrically driven air pump (10), particularly a secondary air pump (10) for a motor vehicle comprising an internal combustion engine. Said air pump (10) encompasses a housing (12), an electric motor (16) which is integrated into the housing (12) and is supported therein with the aid of elastic means (24), and a pump mechanism (13) which is provided with at least one ventilator wheel (36, 38) that is fixed onto a shaft (23) of the driving motor (16). A balancing disk (50) is arranged in the area of the end of the drive shaft (23) of the electric motor (16), which is located opposite the pump mechanism (13).

IPC 1-7
F04D 29/66

IPC 8 full level
F04D 29/66 (2006.01)

CPC (source: EP US)
F04D 29/662 (2013.01 - EP US)

Citation (search report)
See references of WO 2004057195A1

Designated contracting state (EPC)
DE ES FR

DOCDB simple family (publication)
WO 2004057195 A1 20040708; DE 10259179 A1 20040708; EP 1576293 A1 20050921; EP 1576293 B1 20120822; JP 2006510839 A 20060330; US 2006115368 A1 20060601; US 7520734 B2 20090421

DOCDB simple family (application)
DE 0303678 W 20031107; DE 10259179 A 20021218; EP 03788774 A 20031107; JP 2004561019 A 20031107; US 53965705 A 20050614