

Title (en)

DC motor driven centrifugal fan.

Title (de)

Gleichstrommotorgetriebener Zentrifugalventilator.

Title (fr)

Ventilateur centrifuge entrainé par un moteur à courant continu.

Publication

EP 0408221 B1 19940907 (EN)

Application

EP 90307116 A 19900628

Priority

GB 8916214 A 19890714

Abstract (en)

[origin: EP0408221A2] A centrifugal fan includes a brushless d.c motor (50), an impeller (60) mounted on the motor and a scroll (70) on which the motor is mounted. The scroll defines the air inlet and outlet (73) and has an outer wall (71) curved around the impeller to define a divergent air flow path. By truncating the scroll at the outlet substantially to eliminate any flat portions on the outer wall susceptible to mechanical vibrations at frequencies excited by the d.c motor, a noise reduction is achieved. Further noise reduction may be achieved by resiliently mounting the motor on the scroll.

IPC 1-7

F04D 29/42; **F04D 29/66**

IPC 8 full level

F04D 25/08 (2006.01); **F04D 29/42** (2006.01); **F04D 29/66** (2006.01); **H02K 5/24** (2006.01)

CPC (source: EP)

F04D 29/424 (2013.01); **F04D 29/668** (2013.01)

Cited by

AU2004318200B2; US2014023521A1; DE19950245C1; EP1094224A3; EP2365224A1; EP3037672A1; EP2778425A1; EP3330545A1; IT201600121296A1; US10302099B2; US6942457B2; US6712584B2; WO2005096715A3; WO2014014608A1; US9777735B2; US10473108B2; US10221855B2; US10697460B2; US11306725B2; TWI681127B; US6814545B2; US8292575B2; US8337155B2; US8545193B2; EP2971788B1

Designated contracting state (EPC)

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