

Title (en)
FAN SUCTION FOR VACUUM CLEANER

Publication
EP 0043538 A3 19830316 (EN)

Application
EP 81105056 A 19810630

Priority
US 16681080 A 19800709

Abstract (en)
[origin: EP0043538A2] A suction producing unit for a vacuum is constructed with a motor having an armature (21) on a vertical shaft (25) whose lower end is supported in a ball-type bearing unit 27 held in a tolerance ring 65. The upper end of the shaft is journaled in a bearing 26 that is held in a swivel support including a spring retainer ring 43. The latter is part of a subassembly which also includes the upper bearing (43) and an upper housing (28). The stator field piece (22) of the motor is clamped between the upper housing (28) and a lower housing (29) which supports the ball-type lower bearing unit (27). A pair of insulating sleeves (121, 123) on the lower end of the motor shaft (25) serve to properly space the armature (21), the lower bearing (27) and the fan blade (70). The latter (70) is mounted on the shaft (25) at its lower end by an insulating flanged cap nut (130) mounted on the lower threaded end of the motor shaft (25).

IPC 1-7
A47L 5/22

IPC 8 full level
A47L 5/22 (2006.01)

CPC (source: EP)
A47L 5/22 (2013.01)

Citation (search report)
• [XP] FR 2472294 A1 19810626 - VORWERK CO INTERHOLDING [DE]
• [A] FR 1438591 A
• [A] FR 2175551 A1 19731026 - MOULINEX SA [FR]
• [A] DE 2811014 A1 19790920 - SIEMENS AG
• [A] US 4111615 A 19780905 - WATANABE IWAO
• [A] US 4110644 A 19780829 - RODDY JOSEPH T
• [A] US 4109978 A 19780829 - ERNST RICHARD G, et al

Cited by
GB2154073A; GB2219144A; EP0930040A3; GB2140218A; US6224340B1

Designated contracting state (EPC)
CH DE FR GB LI SE

DOCDB simple family (publication)
EP 0043538 A2 19820113; EP 0043538 A3 19830316; AU 7260281 A 19820114; DK 303581 A 19820110

DOCDB simple family (application)
EP 81105056 A 19810630; AU 7260281 A 19810706; DK 303581 A 19810708