

Title (en)

Centrifugal fan and vacuum cleaner having the centrifugal fan

Title (de)

Zentrifugalgebläse und Staubsauger umfassend ein solches Zentrifugalgebläse

Title (fr)

Soufflante centrifuge et aspirateur comportant une telle soufflante centrifuge

Publication

EP 1618821 A3 20060607 (EN)

Application

EP 05291532 A 20050718

Priority

KR 20040056491 A 20040720

Abstract (en)

[origin: EP1618821A2] A centrifugal fan (12) includes a driving motor (58) for generating a rotational force; an impeller (62) connected with the driving motor by a rotational shaft (60) and generating an air blowing force; a partition plate (82) installed inside an impeller casing (52); a diffuser (80) formed at an edge portion of an upper surface of the partition plate and increasing a pressure of air which has passed through the impeller; a rear vane (84) formed at a lower surface of the partition plate and guiding air discharged from the diffuser so as to pass through the driving motor; and an air guiding member (90) formed at certain intervals at an outer surface of the diffuser and guiding air which has passed through the diffuser toward the rear vane. Air which has passed through the diffuser is forcibly introduced to the lower side of the partition plate, so a flow loss caused as air is re-circulated to the upper side of the partition plate after passing through the diffuser can be reduced, and thus, a suction force and efficiency of the centrifugal fan can be enhanced.

IPC 8 full level

A47L 5/22 (2006.01)

CPC (source: EP KR)

A47L 5/22 (2013.01 - EP); **A47L 9/22** (2013.01 - EP KR); **F04D 29/444** (2013.01 - EP KR); **F05D 2250/52** (2013.01 - EP)

Citation (search report)

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DOCDB simple family (application)

EP 05291532 A 20050718; CN 200510084784 A 20050720; DE 602005017332 T 20050718; KR 20040056491 A 20040720