

Title (en)

CENTRIFUGAL BLOWER, METHOD OF MANUFACTURING THE SAME, AND AIR-CONDITIONER PROVIDED WITH THE SAME

Title (de)

ZENTRIFUGALGEBLÄSE, HERSTELLUNGSVERFAHREN DAFÜR SOWIE KLIMAANLAGE MIT EINEM SOLCHEM GEBLÄSE

Title (fr)

SOUFFLANTE RADIALE, PROCEDE DE FABRICATION, ET CONDITIONNEUR D'AIR EQUIPE DE CETTE SOUFFLANTE

Publication

EP 0942175 A1 19990915 (EN)

Application

EP 98944261 A 19980928

Priority

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Abstract (en)

A centrifugal blower includes an impeller (10) having a hub (11), a shroud (12) disposed at a specified distance from the hub (11) in opposed relation thereto, and a plurality of vanes (13) extending between an outer periphery of the hub (11) and an outer periphery of the shroud (12) and arranged generally radially around an axis of the hub (11). Rear edges (13b) of the vanes (13) have a saw teeth configuration (20) zigzagged in the longitudinal direction of the vane (13) and extending widthwise of the vane (13). Therefore, in the rear edge (13b) a longer vane portion and a shorter vane portion alternately exist, so that a combined air current flow resulting from meeting of air current flowing along the pressure surface side with air current flowing along the negative pressure surface side is gradually performed stepwise over the entire length of the rear edge. Thus, pressure gradient and velocity loss of air current are reduced due to meeting of air currents at the rear edge (13b), with the result that air turbulence at the rear edge (13b) is restrained and air blast noise is reduced accordingly. <IMAGE>

IPC 1-7

F04D 29/30

IPC 8 full level

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CPC (source: EP)

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