

Title (en)

CENTRIFUGAL FAN ROTOR AND METHOD OF MANUFACTURING THE FAN ROTOR

Title (de)

ZENTRIFUGALGEBLÄSEROTOR UND VERFAHREN ZUR HERSTELLUNG DES GEBLÄSEROTORS

Title (fr)

ROTOR DE VENTILATEUR CENTRIFUGE ET PROCEDE DE FABRICATION DE CE ROTOR DE VENTILATEUR

Publication

EP 1496265 A4 20101201 (EN)

Application

EP 03715745 A 20030402

Priority

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Abstract (en)

[origin: EP1496265A1] In a method of manufacturing a centrifugal fan rotor comprising a main plate (1), a shroud (2), and a plurality of blades (3, 3, ...) disposed between an outer peripheral part (1a) of the main plate (1) and the shroud (2), a rotor half-finished product (A) comprising the main plate (1) and the blades (3, 3, ...) is formed as an integral molding of synthetic resin and, in addition, the shroud (2) is formed as an integral molding of synthetic resin separately from the rotor half-finished product (A). Thereafter, an engaging claw (5) formed integrally with the shroud (2) is engaged into an engaging part (6) formed in each blade (3) so that the rotor half-finished product (A) and the shroud (2) are united together. As a result, it becomes possible to use inexpensive polypropylene as a material and the reduction in manufacturing costs and the improvement in recycling efficiency are achieved, without having to employ a conventionally-used welding means. <IMAGE>

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CPC (source: EP)

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Citation (search report)

- [X] GB 1171961 A 19691126 - SMITHS INDUSTRIES LTD [GB]
- [X] JP H07247998 A 19950926 - FUJITSU GENERAL LTD
- [X] JP S5366007 A 19780613 - HITACHI LTD
- [X] US 3811978 A 19740521 - WOODEN J
- [A] US 2962207 A 19601129 - MAYNE ROBERT A
- See references of WO 03087582A1

Cited by

CN101839255A; ES2378207A1

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