

Title (en)

AXIAL BLOWER

Publication

EP 0153452 B1 19871125 (DE)

Application

EP 84113344 A 19841106

Priority

DE 3403674 A 19840203

Abstract (en)

[origin: EP0153452A1] 1. Axial flow fan with a fan wheel (2) having holes through which adjustable-pitch blades (4) are passed and which are sealed by sealing rings (15, 16, 17, 27, 28), the root (11) of each blade (4) being connected by screws (12) to a shaft (5) arranged inside the fan wheel, characterized in that the screws (12) are passed from the fan wheel inside through a flange (14) of shaft (5) into the root (11) of blade (4), that the sealing rings (15, 16, 17, 27, 28) are prestressed radially to the fan wheel (2) by resilient elements and pressed against a sliding face (21) at the root (11) of blade (4) located perpendicular to the line of force of the resilient elements and that the prestress deflection of the resilient elements is greater than the displacement caused by centrifugal forces in the area of the sealing rings (15, 16, 17, 27, 28).

IPC 1-7

F04D 29/36

IPC 8 full level

F04D 29/08 (2006.01); **F04D 29/32** (2006.01); **F04D 29/36** (2006.01)

CPC (source: EP)

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Cited by

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DOCDB simple family (publication)

EP 0153452 A1 19850904; **EP 0153452 B1 19871125**; AT E31106 T1 19871215; CA 1282752 C 19910409; DE 3403674 C1 19850605; DE 3467796 D1 19880107; ES 540017 A0 19870401; ES 8704593 A1 19870401; JP S6134399 A 19860218; MX 161116 A 19900731; ZA 849876 B 19851224

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EP 84113344 A 19841106; AT 84113344 T 19841106; CA 473453 A 19850201; DE 3403674 A 19840203; DE 3467796 T 19841106; ES 540017 A 19850131; JP 25389084 A 19841130; MX 20419485 A 19850131; ZA 849876 A 19841219