

Title (en)

Rotor and rotor blade for an axial turbomachine

Title (de)

Rotor mit Laufschaufel für eine axial durchströmte Turbomaschine

Title (fr)

Rotor et aube de rotor pour une turbomachine axiale

Publication

EP 2320030 B1 20121219 (DE)

Application

EP 10189854 A 20101103

Priority

- CH 17232009 A 20091110
- CH 17242009 A 20091110

Abstract (en)

[origin: EP2320030A1] The rotor has rotating blades (26) that are inserted into a rotor groove, and a blade root comprising an inverted-T root with a hammer head. The blade root is supported at radial stop surfaces (25) of the groove against centrifugal forces acting on the rotor blades, and supported at axial stop surfaces (20) against axial forces acting on the rotor blades. The groove has a base area (23) extending in axial and radial directions, where the base area has a constant curved cross-sectional contour. The blade root is adapted to the base area in the radial direction.

IPC 8 full level

F01D 5/30 (2006.01)

CPC (source: EP US)

F01D 5/3038 (2013.01 - EP US); **F05D 2230/232** (2013.01 - EP US); **F05D 2250/14** (2013.01 - EP US); **F05D 2250/141** (2013.01 - EP US); **F05D 2250/70** (2013.01 - EP US); **F05D 2250/71** (2013.01 - EP US); **F05D 2260/941** (2013.01 - EP US)

Cited by

EP2873808A1; US10041363B2; EP2956626B1

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