

Title (en)

Guidevane assembly for an axial turbomachine

Title (de)

Leitschaufelanordnung für eine axiale Strömungsmaschine

Title (fr)

Configuration des aubes de guidage pour une turbomachine axiale

Publication

EP 0937864 B1 20030813 (DE)

Application

EP 99103156 A 19990218

Priority

DE 19807247 A 19980220

Abstract (en)

[origin: EP0937864A2] The machine has at least one blade ring (14,15) formed as a self-supporting component with a mainly rotary-symmetrical stiffening (20,21) along the inner cover plate (16,17), to protect it against axial deformation. The outer cover plate (18,19) is segmented and has several joints. The blade ring is positioned in the housing (13) via at least three segments of the outer plate using a bearing unit (24,25,26,27), which permits a local relative movement. An air guide shell (3) between housing and outer cover plate guides a cooling air flow along the inside of the housing. It has openings (31,32) for the housing-fastened bearings (26,27) of the blade ring. The openings permit passage of the part of the air flow towards the cover plate.

IPC 1-7

F01D 9/04

IPC 8 full level

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CPC (source: EP US)

F01D 5/225 (2013.01 - EP US); **F01D 9/042** (2013.01 - EP US); **F01D 11/08** (2013.01 - EP US); **F01D 25/246** (2013.01 - EP US); **F05B 2230/606** (2013.01 - US); **F05D 2230/642** (2013.01 - EP)

Cited by

EP2947281A1; CN103482219A; EP2719869A1; EP2796667A1; US9816386B2; WO2011018072A3; US9605551B2; US9835039B2

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