

Title (en)

ACTUATOR FOR THE VARIABLE GUIDE VANES OF AN AXIAL TURBO MACHINE

Publication

**EP 0289697 B1 19900919 (DE)**

Application

**EP 88100363 A 19880113**

Priority

DE 3711224 A 19870403

Abstract (en)

[origin: US4836746A] The shafts of guide vanes of an axial-flow engine, in particular, a combustion turbine, are supported angle-adjustably in an annular guide vane carrier and are spring-loaded and vibration-damped in their axis directions. An adjustment ring concentric to the flow channel is supported play-free and with low-friction engagement in a groove of a carrier ring by radial and axial rolls. Levers wedged on the guide vane shafts are pivoted by pins in a cylinder bolt, which, in turn, are supported rotatably and displaceably in laterally open bores of the adjustment ring and axis-parallel to it. This permits a largely play-free transfer of the adjustment motion onto the guide vane shafts without point or line contact. The guide vane carrier closes off the groove of the carrier ring so, that the entire mechanism is protected against dust.

IPC 1-7

**F01D 17/16**

IPC 8 full level

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CPC (source: EP US)

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Cited by

CN104081062A; EP1031703A3; US10670031B2

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**DE 3711224 A1 19881013**; **DE 3711224 C2 19900809**; DE 3860636 D1 19901025; EP 0289697 A1 19881109; EP 0289697 B1 19900919; JP 2844067 B2 19990106; JP S63255501 A 19881021; US 4836746 A 19890606

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**DE 3711224 A 19870403**; DE 3860636 T 19880113; EP 88100363 A 19880113; JP 7349788 A 19880329; US 17603588 A 19880331