

Title (en)
ACTUATOR FOR THE VARIABLE GUIDE VANES OF AN AXIAL TURBO MACHINE

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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.

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IPC 8 full level
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