

Title (en)

DAMPING ELEMENT LIMITING THE ANGULAR DEFLECTION OF TURBO MACHINE ROTOR VANES

Publication

**EP 0214875 B1 19890301 (FR)**

Application

**EP 86401518 A 19860709**

Priority

FR 8510857 A 19850716

Abstract (en)

[origin: US4723889A] A turbomachine rotor disc assembly includes a rotor disc having a plurality of blade-root grooves in its periphery, each two adjacent grooves defining a lobe lug between them. Rotor blades each include an aerofoil portion, a root portion, a platform defining the radially inner boundary of the aerofoil portion, and a stilt portion interconnecting the radially inner face of the platform and the root portion, a free space being defined between each adjacent pair of blades. The angular clearance of each blade in its groove is limited by wedges operative between adjacent blades on the stilts thereof and connecting members carrying the wedges secured to the rotor disc and capable of transmitting shock loads and distributing resultant forces over an adjacent sector of the rotor. The wedges are so dimensioned in relation to the dimensions of the stilts of adjacent blades that the angular clearance is limited to the permissible angular clearance of each blade during auto-rotation of the rotor.

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