

Title (en)

Damping element limiting the angular deflection of turbo machine rotor vanes.

Title (de)

Dämpfungselement zur Begrenzung der Auslenkung von Rotorscheaufeln einer Turbomaschine.

Title (fr)

Dispositif de limitation du débattement angulaire d'aubes montées sur un disque de rotor de turbomachine.

Publication

EP 0214875 A1 19870318 (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.

Abstract (fr)

Le dispositif de limitation comporte des moyens de calage disposés radialement entre chaque couple d'aubes adjacentes le plus haut possible sur l'échasse de chaque aube l'ajustement calculé entre les moyens de calage et les deux échasses adjacentes étant apte à limiter le débattement angulaire de chaque aube autour de son axe longitudinal à sa valeur maximale tolérée en autorotation. Application aux turboréacteurs d'aviation.

IPC 1-7

F01D 5/26; **F01D 5/30**

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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DE FR GB

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