

Title (en)

Vibration damping elements for an axial holding ring of turbomachine fan blades

Title (de)

Vibrationsdämpfungselemente für einen axialen Haltering von Bläferschaufeln einer Turbomaschine

Title (fr)

Dispositif d'amortissement des vibrations d'un anneau de rétention axiale des aubes de soufflante d'une turbomachine

Publication

**EP 1746250 B1 20080910 (FR)**

Application

**EP 06117009 A 20060712**

Priority

FR 0507753 A 20050721

Abstract (en)

[origin: EP1746250A1] A vibration damper for an axial retaining ring (30) for turbine blower vanes (16), mounted on a rotating disk (10) with an annular collar (18) having radial teeth (20) to be contacted with complementary teeth (32) on the ring, consists of elastomeric stoppers (38) to be lodged axially between adjacent teeth and radially between the collar and the ring. A vibration damper is claimed for an axial retaining ring (30) for turbine blower vanes (16), which are mounted by the base (14) on a rotating disk (10) with an axially extending annular collar (18) having radial teeth (20) to be contacted with complementary radial teeth (32) on the retaining ring, which is mounted around the collar. The vibration damper consists of elastomeric stoppers (38) to be lodged axially between two adjacent teeth of the collar and two adjacent teeth of the retaining ring and radially between the collar and the ring. The stoppers have contact surfaces designed to contact the adjacent teeth, the ring and the collar. Independent claims are included for (1) a rotating disk (10) as described above, provided with at least two of the vibration dampers (38) (preferably spaced equidistantly); (2) a retaining ring (30) as described above, provided with at least two of the vibration dampers (38); and (3) a turbine having at least one of the claimed rotating disks with vibration dampers.

IPC 8 full level

**F01D 5/30** (2006.01)

CPC (source: EP US)

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Cited by

FR2967721A1; EP3473810A1; FR2948725A1; EP2503098A3; FR2971822A1; FR3029962A1; US10458244B2; US8573944B2; WO2012114032A1; US9540935B2

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