

Title (en)

Sealing and locking device for the vanes of a turbo machine.

Title (de)

Dichtungs- und Sicherungsring für die Schaufeln einer Turbomaschine.

Title (fr)

Dispositif d'étanchéité et de verrouillage axial d'aubes d'une turbomachine.

Publication

**EP 0263002 A1 19880406 (FR)**

Application

**EP 87401958 A 19870902**

Priority

FR 8612357 A 19860903

Abstract (en)

[origin: US4730983A] A locking and sealing system is disclosed for attaching a rotor blade to a rotor blade disk in a turbojet engine. The system has a first split ring member which locks the rotor blade foot portion onto the rotor blade disk. A second split ring member is inserted between the first split ring member in a downstream flange of the rotor blade foot portions to provide a positive seal to prevent air leakage between the foot portions and the notches formed in the rotor disk.

Abstract (fr)

Un moyen de verrouillage et d'étanchéité d'une aube brochée sur un disque de rotor de turbomachine comporte un premier segment fendu (15) possédant une échancrure (16) de passage d'une aube est vissé dans les rainures circulaires (13) des aubes et (14) du disque pour assurer l'étanchéité amont-aval tandis qu'un second segment fendu (17) est comprimé circulairement pour venir verrouiller le premier segment (15) dans la gorge (13) par centrifugation en fonctionnement. Application aux compresseurs haute pression de turbomachines d'aviation.

IPC 1-7

**F01D 5/30**

IPC 8 full level

**F01D 5/30** (2006.01); **F01D 5/32** (2006.01); **F01D 11/00** (2006.01)

CPC (source: EP US)

**F01D 5/3015** (2013.01 - EP US); **F01D 11/006** (2013.01 - EP US)

Citation (search report)

- [Y] GB 2148404 A 19850530 - GEN MOTORS CORP
- [Y] FR 2524933 A1 19831014 - SNECMA [FR]
- [Y] FR 1060172 A 19540331 - BRISTOL AEROPLANE CO LTD
- [A] FR 1307564 A 19621026 - ROLLS ROYCE [GB]
- [A] GB 905582 A 19620912 - ROLLS ROYCE
- [E] WO 8701761 A1 19870326 - SOLAR TURBINES INC [US]
- [A] GB 954323 A 19640402 - ROLLS ROYCE
- [A] FR 2084523 A5 19711217 - ROLLS ROYCE
- [A] FR 2290570 A1 19760604 - ROLLS ROYCE [GB]

Cited by

EP1371814A1; CN107075960A; US7220099B2; WO03104617A1; WO8503231A1

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DOCDB simple family (application)

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