

Title (en)

Common decoupling device for the first and the second bearings of the drive shaft of a turbomachine, and turbomachine and compressor with such a device

Title (de)

Gemeinsame Entkopplungsvorrichtung für das erste und das zweite Lager der Antriebswelle einer Turbomaschine, und Verdichter und Turbomaschine mit einer solchen Vorrichtung

Title (fr)

Dispositif de découplage commun aux premier et deuxième paliers de l'arbre d'entraînement d'une turbomachine, et turbomachine et compresseur comprenant ledit dispositif de découplage

Publication

EP 1659266 A1 20060524 (FR)

Application

EP 05110969 A 20051118

Priority

FR 0412296 A 20041119

Abstract (en)

The device has an L-shaped ring (23) cooperating with an inner end portion (26) of a web (22) for radially retaining a compressor shaft (3) via its longitudinal portion (24) and axially retaining a fan via its radial portion (25). Fingers (27) cooperate with orifices (28) formed in the web during decoupling of bearings to prevent the rotation of bearing supports (9, 13), where clearance is formed between the fingers and the orifices. An independent claim is also included for a turbomachine comprising a rotor with a drive shaft.

IPC 8 full level

F01D 21/04 (2006.01); **F01D 25/16** (2006.01)

CPC (source: EP US)

F01D 21/045 (2013.01 - EP US); **F01D 25/16** (2013.01 - EP US)

Citation (applicant)

- FR 2752024 A1 19980206 - SNECMA [FR]
- FR 401105 A 19090819 - EMILE JOUARD [FR]

Citation (search report)

- [DX] FR 2752024 A1 19980206 - SNECMA [FR]
- [A] FR 2832195 A1 20030516 - SNECMA MOTEURS [FR]
- [A] US 6009701 A 20000104 - FREEMAN CHRISTOPHER [GB], et al

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EP2071141A1; EP1900910A3; EP3406860A1; CN113056594A; FR2925123A1; EP1900910A2

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