

Title (en)

Device for locking rotor blades and eliminating rotor imbalance in compressors or turbines of gas turbine engines

Title (de)

Einrichtung zur Laufschaufelfixierung und zur Beseitigung von Rotorunwuchten bei axial durchströmten Verdichtern oder Turbinen von Gasturbinentriebwerken

Title (fr)

Dispositif pour le verrouillage d'aubes de rotor et pour l'élimination du déséquilibre du rotor de compresseurs ou turbines de turbines à gaz

Publication

**EP 0699824 B1 19980121 (DE)**

Application

**EP 95112351 A 19950805**

Priority

DE 4430636 A 19940829

Abstract (en)

[origin: EP0699824A1] The equipment uses blades with tooth-like contours on their roots (2), which are anchored in corresponding axial grooves (3) in the rotor. A securing element (6) is arranged in an axial gap (S) between the end of the blade root and the base (G) of the axial groove. Each securing element has ends (E1,E2), which project out of gap between the blade and the disc, and which wedge it in the gap. It spans a recess (7), which is designed to accept a weight for balancing the rotor.

IPC 1-7

**F01D 5/30**; F01D 5/02; F04D 29/66

IPC 8 full level

**F01D 5/02** (2006.01); **F01D 5/30** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP US)

**F01D 5/027** (2013.01 - EP US); **F01D 5/323** (2013.01 - EP US); **F04D 29/662** (2013.01 - EP US)

Cited by

CN102943695A; CN102817640A; EP3244005A1; EP2009245A1; FR2918129A1; US10436224B2; US8529209B2; US8845294B2; EP2455588B1

Designated contracting state (EPC)

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**EP 0699824 A1 19960306**; **EP 0699824 B1 19980121**; DE 4430636 A1 19960314; DE 4430636 C2 19970123; DE 59501325 D1 19980226; US 5584659 A 19961217

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**EP 95112351 A 19950805**; DE 4430636 A 19940829; DE 59501325 T 19950805; US 52068195 A 19950829