

Title (en)

Frequency tuning method of a turbine blade and turbine blade

Title (de)

Verfahren zur Frequenzverstimmung einer Turbinenschaufel sowie Turbinenschaufel

Title (fr)

Procédé de syntonisation de fréquence d'une aube de turbine et aube de turbine

Publication

**EP 1640562 A1 20060329 (DE)**

Application

**EP 04022725 A 20040923**

Priority

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Abstract (en)

The frequency detuning process is for a blade unit (9) made of a basic material, and consisting of a blade (15) with a leading edge (12), trailing edge (13), tip (14) and foot (16). A recess (17) is made in the region of the tip. A component (18) made of a material different from that of the basic material, is fitted in this recess.

IPC 8 full level

**F01D 5/16** (2006.01)

CPC (source: EP)

**F01D 5/16** (2013.01); **F04D 29/324** (2013.01); **F04D 29/668** (2013.01); **F05C 2201/90** (2013.01); **F05D 2230/23** (2013.01); **F05D 2300/133** (2013.01); **F05D 2300/501** (2013.01)

Citation (search report)

- [XY] US 4178667 A 19791218 - STEVENS ELOY C [US], et al
- [X] US 3796513 A 19740312 - JONAS O
- [X] US 4118147 A 19781003 - ELLIS DELMAR H
- [X] GB 2142387 A 19850116 - ROLLS ROYCE
- [X] EP 0924380 A2 19990623 - GEN ELECTRIC [US]
- [Y] GB 1479855 A 19770713 - STATNI VYZKUMNY USTAV MATERIAL
- [A] FR 1024218 A 19530330 - RATEAU SOC
- [A] EP 0852164 A1 19980708 - TOSHIBA KK [JP], et al

Cited by

DE102009033618A1; EP2762678A1; FR3008185A1; US2021123347A1; EP1985803A1; US11015462B2; US11220913B2; US9752441B2; US8607455B2; US11739645B2; US9835034B2; US9695693B2; US11536144B2; WO2008128902A1; WO2014122028A1

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