

Title (en)

Device for setting a predetermined radial gap size of the blades of a turbomachine

Title (de)

Vorrichtung zur Einstellung eines vorbestimmten radialen Spaltmaßes von Laufschaufeln einer Strömungsmaschine

Title (fr)

Appareil pour régler un jeu prédéterminé à l'extrémité d'une aube d'une turbomachine

Publication

**EP 2730371 A1 20140514 (DE)**

Application

**EP 13003934 A 20121113**

Priority

- EP 13003934 A 20121113
- EP 12192401 A 20121113

Abstract (en)

The method involves removing a housing part exposing rotor blades (11) to be machined. A grinding device (1) is arranged in a region of a rotor blade to be machined such that a tip of the blade is machined by using a grinding disk (2) of the device. The machining region is screened off by arranging a screening device to counter a release of grinding dust from the screened-off region. Suction extraction is provided such that the extraction extracts the dust from the screened-off region. The tip of the blade is grinded in-situ for producing predetermined radial gap width. An independent claim is also included for a grinding device.

Abstract (de)

Vorrichtung zur Einstellung eines vorbestimmten radialen Spaltmaßes von Laufschaufeln einer Strömungsmaschine durch schleifende Bearbeitung der Laufschaufelspitzen in situ.

IPC 8 full level

**B24B 19/14** (2006.01); **F01D 5/00** (2006.01); **F01D 5/20** (2006.01); **F01D 25/26** (2006.01)

CPC (source: CN EP KR US)

**B24B 19/14** (2013.01 - CN EP KR US); **B24B 49/00** (2013.01 - KR); **B24B 55/06** (2013.01 - CN EP US); **F01D 5/005** (2013.01 - EP US); **F01D 5/20** (2013.01 - EP US); **F01D 25/26** (2013.01 - EP US)

Citation (search report)

- [X] DE 19908708 A1 20000316 - RIETER AG MASCHF [CH]
- [X] DE 29804858 U1 19980730 - STOLPE MATTHIAS [DE], et al
- [A] US 5704826 A 19980106 - DE LUIS VIZCAINO ELIAS [ES]
- [A] DE 102008037429 A1 20090416 - GEN ELECTRIC [US]
- [A] US 4501095 A 19850226 - DRINKUTH WILLIAM H [US], et al

Cited by

DE102015220883A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2730370 A1 20140514**; **EP 2730370 B1 20151014**; CN 103802005 A 20140521; CN 103802005 B 20180717; EP 2730371 A1 20140514; EP 2730371 B1 20160518; JP 2014098389 A 20140529; KR 102192838 B1 20201218; KR 20140061252 A 20140521; TW 201427795 A 20140716; TW I655994 B 20190411; US 2014134926 A1 20140515; US 9969055 B2 20180515

DOCDB simple family (application)

**EP 12192401 A 20121113**; CN 201310571643 A 20131113; EP 13003934 A 20121113; JP 2013233795 A 20131112; KR 20130135685 A 20131108; TW 102138581 A 20131025; US 201314073942 A 20131107