Title (en)

SECURING DEVICE FOR SECURING A ROTOR OF A TURBOMACHINE COUNTER TO TILTING, SAID ROTOR BEING ARRANGED PERPENDICULAR TO A HORIZONTAL PLANE AND METHOD FOR THE ALIGNMENT THEREOF

Title (de)

SICHERUNGSVORRICHTUNG ZUR SICHERUNG EINES QUER GEGENÜBER EINER HORIZONTALEBENE AUFGESTELLTEN ROTORS EINER STRÖMUNGSMASCHINE GEGEN UMKIPPEN SOWIE AUSRICHTVERFAHREN DAZU

Title (fr)

DISPOSITIF DE FIXATION DESTINÉ À FIXER UN ROTOR D'UNE TURBOMACHINE, DISPOSÉ PERPENDICULAIREMENT PAR RAPPORT À UN PLAN HORIZONTAL, CONTRE LE BASCULEMENT, ET PROCÉDÉ D'ORIENTATION DESTINÉ À CET EFFET

Publication

EP 2134927 A1 20091223 (DE)

Application

EP 08735741 A 20080403

Priority

- EP 2008053992 W 20080403
- EP 07007681 A 20070416
- EP 08735741 A 20080403

Abstract (en)

[origin: WO2008125506A1] The invention relates to a securing device (45) for securing a rotor (13) of a turbomachine against tilting, said rotor being arranged perpendicular in relation to a horizontal plane (47). Said securing device comprises at least one support surface (61) enabling the rotor (13), that is arranged perpendicular in relation to the horizontal plane (47), to be laterally supported in relation to said securing device (45). According to the invention, for threading and unthreading the rotor disks (19, 21) in a particularly secure manner on the tie rod (15) and to prevent contact between said rotor disks (19, 21) and the tie rod (15) when lowering and lifting the rotor disks (19, 21), said contact possibly damaging the components, the rotor (13) or the tie rod (15) being arranged in an essentially vertical manner, is oriented vertically such that during alignment, the support surfaces (61) on which the rotor (13) or the tie rod (15) support, are displaced such that rotor (13) is perpendicular in relation to the horizontal plane.

IPC 8 full level

F01D 25/28 (2006.01); **F02C 7/20** (2006.01); **F04D 29/64** (2006.01)

CPC (source: EP US)

F01D 25/28 (2013.01 - EP US); **F04D 29/284** (2013.01 - EP US); **F04D 29/644** (2013.01 - EP US); F05D 2230/60 (2013.01 - EP US); F05D 2230/70 (2013.01 - EP US); F05D 2240/20 (2013.01 - EP US); F05D 2240/90 (2013.01 - EP US); Y10T 29/37 (2015.01 - EP US); Y10T 29/49316 (2015.01 - EP US); Y10T 29/4932 (2015.01 - EP US); Y10T 29/49321 (2015.01 - EP US); Y10T 29/49826 (2015.01 - EP US); Y10T 29/49828 (2015.01 - EP US)

Citation (search report)

See references of WO 2008125506A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 1983161 A1 20081022; AT E510998 T1 20110615; EP 2134927 A1 20091223; EP 2134927 B1 20170308; EP 2134928 A1 20091223; EP 2134928 B1 20110525; ES 2365375 T3 20111003; JP 2010523900 A 20100715; JP 2010523901 A 20100715; JP 4937408 B2 20120523; JP 4948644 B2 20120606; PL 2134928 T3 20111031; US 2010107385 A1 20100506; US 2010139064 A1 20100610; US 8667678 B2 20140311; US 9003656 B2 20150414; WO 2008125506 A1 20081023; WO 2008125507 A1 20081023

DOCDB simple family (application)

EP 07007681 A 20070416; AT 08735742 T 20080403; EP 08735741 A 20080403; EP 08735742 A 20080403; EP 2008053992 W 20080403; EP 2008053993 W 20080403; ES 08735742 T 20080403; JP 2010503449 A 20080403; JP 2010503450 A 20080403; PL 08735742 T 20080403; US 59555608 A 20080403; US 59621508 A 20080403