

Title (en)

NOSE DOME FOR A TURBO MACHINE ROTOR

Title (de)

NASENHAUBE FÜR EINEN TURBOMASCHINENROTOR

Title (fr)

CAPOT NASAL POUR L'ARBRE D'UNE TURBOMACHINE

Publication

EP 2158404 A1 20100303 (DE)

Application

EP 08760534 A 20080605

Priority

- EP 2008056955 W 20080605
- EP 07012621 A 20070627
- EP 08760534 A 20080605

Abstract (en)

[origin: EP2009290A1] The dome (11) has a coupling device for mechanically coupling an impeller (6) and the dome in a radial manner, such that vibration behavior of a turbo-machine rotor is influenced. The impeller exhibits a shaft bore (7) with a cylindrical inner wall (8), where the shaft bore is accessible from outside. The coupling device exhibits a projection (12) and a pressurization unit, where the projection has a cylindrical external wall (13) that is insertable into the shaft bore by formation of an annular gap (14) between the external wall of the projection and the inner wall of the shaft bore.

IPC 8 full level

F04D 29/42 (2006.01); **F02C 7/04** (2006.01); **F04D 29/053** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP US)

F01D 25/04 (2013.01 - EP US); **F02C 7/04** (2013.01 - EP US); **F04D 29/053** (2013.01 - EP US); **F04D 29/4213** (2013.01 - EP US); **F04D 29/668** (2013.01 - EP US); **F05D 2220/40** (2013.01 - EP US); **F05D 2260/96** (2013.01 - EP US)

Citation (search report)

See references of WO 2009000618A1

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2009290 A1 20081231; CN 101688542 A 20100331; CN 101688542 B 20111221; EP 2158404 A1 20100303; US 2010183432 A1 20100722; US 8545174 B2 20131001; WO 2009000618 A1 20081231

DOCDB simple family (application)

EP 07012621 A 20070627; CN 200880022207 A 20080605; EP 08760534 A 20080605; EP 2008056955 W 20080605; US 66472908 A 20080605