

Title (en)

Rotor device for a steam turbine and steam turbine

Title (de)

Rotorvorrichtung für eine Dampfturbine und Dampfturbine

Title (fr)

Dispositif de rotor pour une turbine à vapeur et turbine à vapeur

Publication

EP 2192266 A1 20100602 (EN)

Application

EP 08020581 A 20081126

Priority

EP 08020581 A 20081126

Abstract (en)

The invention relates to a rotor device (1) for a steam turbine, which is rotatably mounted around an axis (2), comprising a number of blades (3) arranged at the rotor device (1), comprising a first portion (4) of the peripheral surface of the rotor device (1) being constructed to receive an inner casing (5) having a steam inlet (6) of said steam turbine, comprising a loose balance piston (7) mounted at a second portion (8) of the peripheral surface of the rotor device (1), whereby the diameter of the first portion (4) of the peripheral surface of the rotor device (1) is larger than the diameter of the second portion (8) of the peripheral surface of the rotor device (1). The invention further relates to a steam turbine, comprising that kind of rotor device, an inner casing (5) mounted at the first portion (4) of the peripheral surface of the rotor device (1) or at the circumferential restraint (9), whereby the inner casing (5) has a steam inlet (6), an outer casing and axial bearings (10) for bearing the rotor device (1) in the inner (5) and/or outer casing.

IPC 8 full level

F01D 3/04 (2006.01)

CPC (source: EP)

F01D 3/04 (2013.01); **F05D 2220/31** (2013.01); **F05D 2240/52** (2013.01); **F05D 2260/33** (2013.01)

Citation (search report)

- [X] US 1344193 A 19200622 - JAMES WILSON
- [X] DE 406365 C 19241122 - C H JAEGER & CO PUMPEN UND GEB
- [X] EP 1035301 A1 20000913 - ASEA BROWN BOVERI [CH]
- [A] US 6213710 B1 20010410 - REMBERG AXEL [DE]

Cited by

CN109184823A

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 2192266 A1 20100602

DOCDB simple family (application)

EP 08020581 A 20081126