

Title (en)

Steamturbine comprising a dummy piston

Title (de)

Dampfturbine umfassend einen Schubausgleichskolben

Title (fr)

Turbine à vapeur comprenant un piston de compensation

Publication

EP 2554789 A1 20130206 (DE)

Application

EP 11176574 A 20110804

Priority

EP 11176574 A 20110804

Abstract (en)

The turbine has rotor (5) with several blades that are rotatably mounted within inner casing (3). The inner casing has inner housing end region (33) formed around thrust balance piston (4). A seal (27) is arranged between inner housing end region and outer housing, to separate third pressure chamber (29). A feed channel (16) is provided between thrust balance piston and inner casing, to connect first pressure chamber (15) to thrust input piston chamber (12). A connection (32) is provided to fluidically connect third pressure chamber of inner casing with the thrust input piston chamber.

Abstract (de)

Die Erfindung betrifft eine Kühlung für eine Dampfturbine (1), die im Bereich der Ventilanbindung (40) einen Kühlkanal (37) vorsieht, der mit einem Kühldampf aus dem Strömungskanal (9) beströmt und anschließend als Kühldampf im Bereich des Schubausgleichskolben (4) zugeführt wird.

IPC 8 full level

F01D 3/04 (2006.01)

CPC (source: EP US)

F01D 3/04 (2013.01 - EP US); **F01K 3/04** (2013.01 - US); **F05D 2220/31** (2013.01 - EP US); **F05D 2260/20** (2013.01 - EP US)

Citation (search report)

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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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2554789 A1 20130206; CN 103717838 A 20140409; CN 103717838 B 20160217; EP 2718545 A1 20140416; EP 2718545 B1 20160302; IN 164DEN2014 A 20150522; JP 2014521872 A 20140828; JP 5756886 B2 20150729; US 2014199161 A1 20140717; WO 2013017634 A1 20130207

DOCDB simple family (application)

EP 11176574 A 20110804; CN 201280038308 A 20120801; EP 12743152 A 20120801; EP 2012065065 W 20120801; IN 164DEN2014 A 20140108; JP 2014523320 A 20120801; US 201214236396 A 20120801