

Title (en)

GAS TURBINE HAVING AXIAL THRUST PISTON AND RADIAL BEARING

Title (de)

GASTURBINE MIT AXIALSCHUBKOLBEN UND RADIALLAGER

Title (fr)

TURBINE À GAZ ÉQUIPÉE D'UN PISTON À POUSSÉE AXIALE ET D'UN PALIER RADIAL

Publication

EP 3397843 A1 20181107 (DE)

Application

EP 17700929 A 20170112

Priority

- DE 102016201682 A 20160204
- EP 2017050552 W 20170112

Abstract (en)

[origin: WO2017133873A1] The invention relates to a gas turbine (1) having an axially adjustable rotor (2), comprising the following components: at least one external compressor air bleed (3) for bleeding compressor air; a control valve (4) for adjusting the amount of compressor air bled via the at least one external compressor air bleed (3); an axial thrust piston (10) that can be supplied with the compressor bleed air via a supply line (5) in such a way that a different axial compensation thrust is applied to same when the amount of compressor bleed air is adjusted; and a radial bearing (11) which cooperates with the axial thrust piston (10) for bearing purposes, and which can also be directly or indirectly supplied with the compressor bleed air via the supply line (5).

IPC 8 full level

F01D 3/04 (2006.01); **F01D 21/04** (2006.01); **F01D 21/08** (2006.01); **F01D 25/16** (2006.01); **F02C 6/08** (2006.01); **F02C 7/06** (2006.01)

CPC (source: EP US)

F01D 3/04 (2013.01 - EP US); **F01D 5/02** (2013.01 - US); **F01D 7/00** (2013.01 - US); **F01D 21/04** (2013.01 - EP US); **F01D 21/08** (2013.01 - EP US); **F02C 7/06** (2013.01 - EP US); **F05D 2220/3215** (2013.01 - US); **F05D 2240/242** (2013.01 - US); **F05D 2240/52** (2013.01 - US)

Citation (search report)

See references of WO 2017133873A1

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)

WO 2017133873 A1 20170810; CN 108603415 A 20180928; EP 3397843 A1 20181107; JP 2019508619 A 20190328; US 2019063222 A1 20190228

DOCDB simple family (application)

EP 2017050552 W 20170112; CN 201780009938 A 20170112; EP 17700929 A 20170112; JP 2018540807 A 20170112; US 201716072540 A 20170112