

Title (en)

Method for operating a gas turbine with axial thrust balance

Title (de)

Verfahren zum Betrieb einer Gasturbine mit Axialschubausgleich

Title (fr)

Procédé de fonctionnement d'une turbine à gaz à poussée axiale compensée

Publication

EP 2011963 B1 20180404 (DE)

Application

EP 08159584 A 20080703

Priority

CH 10792007 A 20070704

Abstract (en)

[origin: EP2011963A1] The method involves configuring a gas turbine (4) with respect to aerodynamic forces and compressive forces, which exert axial forces on a turbine rotor such that the forces result in a negative thrust during no-load operation and low partial load and in a positive thrust during high load and full load to apply a positive-auxiliary thrust. An axial bearing force is positively held in an entire load area. Uncompressed air in high load area is utilized for pressurization. The auxiliary thrust is produced by controlling pressures at a front side or at a partial surface of the rotor.

IPC 8 full level

F01D 3/04 (2006.01)

CPC (source: EP US)

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Cited by

DE102017205055A1; DE102016201685A1; WO2017133873A1; EP2246528A3; WO2017133872A1

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DOCDB simple family (publication)

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