

Title (en)

Intermediate casing of a gas turbine engine comprising an outer boundary wall which comprises upstream of a support strut a variable contour in circumferential direction in order to reduce secondary flow losses

Title (de)

Zwischengehäuse einer Gasturbine mit einer aussen liegenden Begrenzungswand welche stromaufwärts einer Stützrippe eine in Umfangrichtung verändernde Kontur aufweist zur Verringerung der Sekundärströmungsverluste

Title (fr)

Carter intermédiaire d'une turbine à gaz comprenant une paroi de limite extérieure en amont d'une entretoise avec un contour variable en direction circonférentielle pour minimiser les pertes de flux secondaires

Publication

EP 2665896 A1 20131127 (DE)

Application

EP 12716196 A 20120116

Priority

- DE 102011008812 A 20110119
- DE 2012000032 W 20120116

Abstract (en)

[origin: WO2012097798A1] Intermediate housing (14), in particular of turbines (11, 13) of a gas engine, having a radially inner bounding wall (23) and having a radially outer bounding wall (24, 24'), having a crossflow channel (33) which is formed by the bounding walls (23, 24, 24') and in which at least one supporting rib (15) is positioned which has a front edge (16), a rear edge (17) and side walls (18) which extend between the front edge (16) and the rear edge (17) and guide a gas flow which flows through the crossflow channel (33), wherein the radially outer bounding wall (24) has a contour which changes in the circumferential direction, at least in a section upstream of the supporting rib (15).

IPC 8 full level

F16B 37/04 (2006.01); **F01D 5/14** (2006.01); **F01D 9/02** (2006.01)

CPC (source: EP US)

F01D 5/143 (2013.01 - EP US); **F01D 9/02** (2013.01 - EP US); **F01D 25/14** (2013.01 - US); **F01D 25/24** (2013.01 - US); **F05D 2240/11** (2013.01 - EP US); **F05D 2270/17** (2013.01 - EP US)

Citation (search report)

See references of WO 2012097798A1

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

DOCDB simple family (publication)

DE 102011008812 A1 20120719; EP 2665896 A1 20131127; EP 2665896 B1 20150610; US 2013064657 A1 20130314; US 9382806 B2 20160705; WO 2012097798 A1 20120726

DOCDB simple family (application)

DE 102011008812 A 20110119; DE 2012000032 W 20120116; EP 12716196 A 20120116; US 201213699202 A 20120116