

Title (en)

Heating or cooling device for carter with a circular section

Title (de)

Heiz- b.z.w. Kühleinrichtung für ein Gehäuse mit kreisförmigem Querschnitt

Title (fr)

Dispositif d'échauffement ou de refroidissement d'un carter circulaire

Publication

**EP 0892153 A1 19990120 (FR)**

Application

**EP 98401801 A 19980717**

Priority

FR 9709136 A 19970718

Abstract (en)

The heating or cooling device for adjusting the diameter of a circular casing uses circular arc galleries (7,8,9) through which gas is blown onto ribs on the casing. The galleries each extend over a quarter of the circumference and are extended by a trio of identical chambers (107-109,207-209,307-309) which form a triple ring around the casing and the ribs. The gas distribution network is composed of conduits (17,18,19,20), having an identical total length from a common origin (15), in each of the chambers.

Abstract (fr)

Ce dispositif d'échauffement de refroidissement d'un anneau de carter (1) de turbomachine, afin de régler son diamètre, utilise des rampes (7, 8 et 9) en arc de cercle par lesquelles du gaz est soufflé vers des nervures (6) du carter (1). Selon l'invention, les gaz circulent à contre-courant ou dans des sens alternés pour des rampes voisines afin d'égaliser les conditions de soufflage à chaque point des nervures. <IMAGE>

IPC 1-7

**F01D 11/24**; **F01D 25/08**

IPC 8 full level

**F01D 25/10** (2006.01); **F01D 11/24** (2006.01); **F01D 25/08** (2006.01); **F01D 25/12** (2006.01); **F01D 25/24** (2006.01); **F02C 7/18** (2006.01); **F28F 3/12** (2006.01)

CPC (source: EP US)

**F01D 11/24** (2013.01 - EP US); **F01D 25/08** (2013.01 - EP US); **F28F 3/12** (2013.01 - EP US); **F05D 2250/141** (2013.01 - EP US)

Citation (search report)

- [XA] EP 0541325 A1 19930512 - GEN ELECTRIC [US]
- [A] EP 0559420 A1 19930908 - GEN ELECTRIC [US]
- [A] US 3408044 A 19681029 - FANNY BURGER JEANNE, et al

Cited by

WO2021209713A1; ITTO20120519A1; CN106382136A; FR2931872A1; EP1577502A1; FR2867806A1; FR2965583A1; FR3109406A1; EP1577501A1; FR2867805A1; CN109906309A; US8662828B2; US7309209B2; WO2013186757A3; WO2009144191A1; US7360987B2; US11698003B2; WO2013186757A2; US9790810B2; US11879347B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0892153 A1 19990120**; **EP 0892153 B1 20040506**; CA 2243032 A1 19990118; CA 2243032 C 20080122; DE 69823590 D1 20040609; DE 69823590 T2 20050428; FR 2766231 A1 19990122; FR 2766231 B1 19990820; JP 3592533 B2 20041124; JP H1172007 A 19990316; US 6035929 A 20000314

DOCDB simple family (application)

**EP 98401801 A 19980717**; CA 2243032 A 19980713; DE 69823590 T 19980717; FR 9709136 A 19970718; JP 19892498 A 19980714; US 11552398 A 19980715