

Title (en)

Arrangement and method for controlling the stator ring diameter

Title (de)

Anordnung und Verfahren zur Regelung des Durchmessers eines Leitschaufelkranzes

Title (fr)

Agencement et procédé de réglage de diamètre d'anneau de stator

Publication

**EP 0821134 A1 19980128 (FR)**

Application

**EP 97401775 A 19970724**

Priority

FR 9609364 A 19960725

Abstract (en)

The regulator consists of a crankcase member (7) situated between the ring (5) and a gas blower (10), having a cavity (16) which is connected through ducts (20,22) to the chambers before and after the ring which surround a gas circulation flow bounded by the ring, and with the cavity and ducts extending some distance from the ring. The cavity (16) is divided by a perforated partition (19) into front and rear sections (17,18) which are connected by the ducts to the forward and after chambers. The perforations in the partition are offset radially and peripherally relative to the ducts. The cavity is located in a stator ring supporting rib, and a variant of the design can have two ribs and two cavities.

Abstract (fr)

Agencement de réglage du diamètre d'un anneau (5) de turbomachine situé en face d'aubes mobiles (4) de rotor, et lié à un élément de carter (7). Ce dernier est creusé d'une cavité (16) communiquant à des chambres (21 et 23) autour de la veine (31) d'écoulement des gaz. Un léger courant d'air traverse la cavité (16), et il est suffisamment modéré pour que se développe une convection thermique qui uniformise la température de l'élément de carter (7) et de l'anneau (5) et donc le diamètre de celui-ci. <IMAGE>

IPC 1-7

**F01D 11/18**; **F01D 11/24**

IPC 8 full level

**F01D 11/18** (2006.01); **F01D 11/24** (2006.01)

CPC (source: EP US)

**F01D 11/18** (2013.01 - EP US); **F01D 11/24** (2013.01 - EP US)

Citation (search report)

- [Y] GB 2263138 A 19930714 - SNECMA [FR]
- [Y] FR 2688539 A1 19930917 - SNECMA [FR]
- [Y] GB 2062117 A 19810520 - GEN ELECTRIC
- [Y] US 4337016 A 19820629 - CHAPLIN GARY F
- [Y] EP 0115984 A1 19840815 - SNECMA [FR]
- [Y] GB 2217788 A 19891101 - GEN ELECTRIC [US]
- [A] FR 2295239 A1 19760716 - GEN ELECTRIC [US]

Cited by

EP1923538A3; EP1914392A3; US8801370B2

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0821134 A1 19980128**; **EP 0821134 B1 20040324**; CA 2211428 A1 19980125; CA 2211428 C 20060314; DE 69728222 D1 20040429; DE 69728222 T2 20050310; FR 2751694 A1 19980130; FR 2751694 B1 19980904; US 5915919 A 19990629

DOCDB simple family (application)

**EP 97401775 A 19970724**; CA 2211428 A 19970717; DE 69728222 T 19970724; FR 9609364 A 19960725; US 89352197 A 19970711