Title (en)

Turbomachine stator segment assembly

Title (de)

Anordnung von Statorsegmenten in einer Turbomaschine

Title (fr)

Assemblage de secteurs d'un distributeur dans une turbomachine

Publication

EP 1293643 A1 20030319 (FR)

Application

EP 02292230 A 20020912

Priority

FR 0111830 A 20010913

Abstract (en)

The assembly system for distributor sectors (20) to a gas turbine housing uses a movable flange (30) with a hook (32) fitted between collars (22, 23) on the sectors. The flange and housing have flat faces (31) positioned against one another in an axial direction, and the fixings are in the form of studs (37) that pass radially through the housing and hold the flange against the housing. The hook has a conical outer surface, at least in a central section passing under the curved edge of a collar.

Abstract (fr)

Les crochets (32) de retenue d'une bride (22) de secteurs de redresseur (20), porteurs d'aubes fixes dans une turbomachine, sont avantageusement placés sur un flasque (30) distinct du carter (21) mais assemblé à lui. Ainsi, ces crochets ne constituent plus des points faibles du carter comme quand ils étaient d'un tenant avec lui, le montage des secteurs (20) est facilité, et l'assemblage plus rigide. <IMAGE>

IPC 1-7

F01D 9/04; F01D 25/24

IPC 8 full level

F01D 9/02 (2006.01); **F01D 1/00** (2006.01); **F01D 9/04** (2006.01); **F01D 25/24** (2006.01)

CPC (source: EP US)

F01D 9/042 (2013.01 - EP US); **F01D 25/246** (2013.01 - EP US); F05B 2260/301 (2013.01 - EP US); F05D 2250/232 (2013.01 - EP US); F05D 2250/292 (2013.01 - EP US)

Citation (search report)

- [A] US 5131813 A 19920721 - PRZYTULSKI JAMES C [US], et al
- [A] US 3892497 A 19750701 - GUNDERLOCK RICHARD P, et al
- [A] US 5618161 A 19970408 - PAPAGEORGIOU THEODORE [US], et al

Cited by

FR2907499A1; FR2960590A1; EP2369139A3

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

EP 1293643 A1 20030319; **EP 1293643 B1 20041124**; CA 2460096 A1 20030320; CA 2460096 C 20110531; CN 1309936 C 20070411; CN 1553986 A 20041208; DE 60202032 D1 20041230; DE 60202032 T2 20060209; ES 2229068 T3 20050416; FR 2829525 A1 20030314; FR 2829525 B1 20040312; JP 2005502807 A 20050127; JP 4165880 B2 20081015; MA 26212 A1 20040701; RU 2004111004 A 20050520; RU 2317422 C2 20080220; UA 77434 C2 20061215; US 2004206871 A1 20041021; US 7210901 B2 20070501; WO 03023193 A1 20030320

DOCDB simple family (application)

EP 02292230 A 20020912; CA 2460096 A 20020911; CN 02817868 A 20020911; DE 60202032 T 20020912; ES 02292230 T 20020912; FR 0111830 A 20010913; FR 0203091 W 20020911; JP 2003527240 A 20020911; MA 27561 A 20040305; RU 2004111004 A 20020911; UA 2004031854 A 20020911; US 48772904 A 20040225