

Title (en)

Regulation device for centering the unison ring for the variable stator vanes of a turbomachine.

Title (de)

Regeleinrichtung zur Zentrierung des Verstellringes für die verstellbaren Leitschaufeln einer Turbomaschine.

Title (fr)

Dispositif de réglage du centrage d'un anneau de synchronisation de commande d'aubes pivotantes de turbomachine

Publication

**EP 1696134 A3 20121114 (FR)**

Application

**EP 06110207 A 20060221**

Priority

FR 0501931 A 20050225

Abstract (en)

[origin: EP1696134A2] The device has pads (30) that are in contact with a circular surface (28) coaxial to a control ring (26). Pivoting vanes e.g. variable-pitch vanes, are connected to the ring via a lever (20). The lever has an end fixed to the ring via a crank pin (24) and another end mounted on a pivot of the vane. The crank pin is disposed radially on the ring. Each pad is fixed to a pad carrier (32). The pad carrier is fixed below the control ring by bolt type attachment systems (38). The attachment systems are assembled through top of the ring. A spring is placed between the carrier and the pads.

IPC 8 full level

**F01D 17/16** (2006.01); **F04D 29/56** (2006.01)

CPC (source: EP US)

**F01D 17/162** (2013.01 - EP US); **F04D 29/563** (2013.01 - EP US); **F05D 2230/644** (2013.01 - EP US)

Citation (search report)

- [X] EP 0375593 A1 19900627 - UNITED TECHNOLOGIES CORP [US]
- [X] EP 0741247 A2 19961106 - DEUTSCHE FORSCH LUFT RAUMFAHRT [DE]
- [X] FR 2617544 A1 19890106 - ROLLS ROYCE PLC [GB]
- [X] EP 1403467 A2 20040331 - UNITED TECHNOLOGIES CORP [US]
- [AD] US 5387080 A 19950207 - BOUHENNICHA YASSIN [FR], et al

Cited by

WO2016092172A1; FR3024996A1; FR3119859A1; FR3029562A1; RU2705128C2; EP2481892A3; US10494937B2; US10662805B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1696134 A2 20060830**; **EP 1696134 A3 20121114**; **EP 1696134 B1 20140402**; CA 2537435 A1 20060825; CA 2537435 C 20130618; CN 1824957 A 20060830; CN 1824957 B 20120516; FR 2882578 A1 20060901; FR 2882578 B1 20070525; JP 2006233969 A 20060907; JP 4887059 B2 20120229; RU 2006105521 A 20070827; RU 2395694 C2 20100727; US 2006193720 A1 20060831; US 7244098 B2 20070717

DOCDB simple family (application)

**EP 06110207 A 20060221**; CA 2537435 A 20060224; CN 200610058232 A 20060224; FR 0501931 A 20050225; JP 2006046258 A 20060223; RU 2006105521 A 20060222; US 35588306 A 20060217