

Title (en)
Gas turbine

Title (de)
Gasturbine

Title (fr)
Turbine à gaz

Publication
EP 2206885 A1 20100714 (DE)

Application
EP 09000161 A 20090108

Priority
EP 09000161 A 20090108

Abstract (en)
The turbine has guide vanes (14) fastened to a guide vane holder (48) of a guide vane support (16) by dovetail joints (34), which are aligned parallel to a turbine axis. The holder is movably mounted around an axle (50), which is tangential to a radius around the turbine axis. Each guide vane is attached to a combustion chamber (4). The chamber includes a thermal shield (38), which is arranged in a radial direction in an extent of the joints. The shield forms a wall (42) of a groove (44) in which a spring is arranged. A brush seal (56) is arranged between the holder and the support.

Abstract (de)
Eine Gasturbine (1) mit einer Brennkammer (4), einer Anzahl von Leitschaufelreihen und einem Leitschaufelträger (16), soll unter Beibehaltung eines besonders hohen Wirkungsgrades den Austausch von Leitschaufeln weiter vereinfachen und somit für eine besonders kurze Reparaturdauer ausgelegt sein. Dazu ist eine Anzahl von Leitschaufeln (14) mittels einer parallel zur Turbinenachse (9) ausgerichteten Schwalbenschwanzverbindung (34) am Leitschaufelträger (16) befestigt.

IPC 8 full level
F01D 5/30 (2006.01); **F01D 9/04** (2006.01)

CPC (source: EP)
F01D 5/326 (2013.01); **F01D 9/042** (2013.01); **F01D 25/246** (2013.01); **F05D 2220/3212** (2013.01); **F05D 2230/70** (2013.01); **F05D 2240/56** (2013.01); **F05D 2250/411** (2013.01)

Citation (applicant)
WO 2004057158 A1 20040708 - SIEMENS AG [DE], et al

Citation (search report)
• [X] US 5449272 A 19950912 - BOYD GARY L [US], et al
• [X] EP 1978212 A2 20081008 - GEN ELECTRIC [US]
• [A] WO 2005017320 A1 20050224 - MTU AERO ENGINES GMBH [DE], et al
• [DA] WO 2004057158 A1 20040708 - SIEMENS AG [DE], et al
• [A] US 3086363 A 19630423 - FIORI BRUNO M
• [A] EP 1840337 A1 20071003 - SIEMENS AG [DE]

Cited by
JP2011144805A; EP2428647A1; US2015098812A1; US9556746B2; US10612419B2; US10662815B2; WO2017145190A1; US10221707B2; US11193380B2; US9097118B2; US9835038B2; US10221711B2

Designated contracting state (EPC)
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 SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2206885 A1 20100714

DOCDB simple family (application)
EP 09000161 A 20090108