

Title (en)

System to keep the blade tip clearance in a gas turbine constant

Title (de)

System zur Konstanthaltung des Schaufelspitzenspiels bei einer Gasturbine

Title (fr)

Système pour maintenir le jeu des extrémités des aubes d'une turbine à gaz à constant

Publication

**EP 0924388 A3 20000816 (DE)**

Application

**EP 98121690 A 19981113**

Priority

DE 19756734 A 19971219

Abstract (en)

[origin: EP0924388A2] The tips (6a) of the blades are enclosed by ring segments (5) hanging in the turbine housing with a gap (s) controlled in width by a tempering channel system to which an air stream (8) is supplied which is conveyed by the compressor part of the turbine past the combustion chamber. A diaphragm ring (11) closes the measuring bores (7b) more or less in dependence on the temperature of the air stream (8) which is brought up to same. A fraction of the hot gas flowing through the guide vanes (4) and rotor blades (2) can pass through a gap (13) between the stator ring (10) and ring segments (5) at least with a low turbine load, and into the ring chamber (7a) and into the rear area of the turbine, seen in the flow direction.

IPC 1-7

**F01D 11/24**; F01D 1/16; F01D 11/18

IPC 8 full level

**F01D 1/16** (2006.01); **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)

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