Title (en)

GAS TURBINE COMPRISING A GUIDE VANE

Title (de)

GASTURBINE MIT EINER LEITSCHAUFEL

Title (fr)

TURBINE À GAZ POURVUE D'UNE AUBE DIRECTRICE

Publication

**EP 2300686 B1 20130807 (DE)**

Application

**EP 09765688 A 20090513**

Priority

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Abstract (en)

[origin: WO2009153108A2] The invention relates to a gas turbine comprising a guide vane (20) that is mounted on a vane support (38) and encompasses an airfoil (22) which extends in a radial direction from a cover plate (21) inward into a hot gas duct (44). A cooling medium, especially cooling air, flows through the interior of the airfoil (22). Said cooling medium flows through an access point (43) in the vane support (38) into a first plenum (41) located above the cover plate (21) and from there into the interior of the airfoil (22) via an inlet (36) located within the cover plate (21). In order to more easily cool the cover plate (21) in such a guide vane, first means (34, 35; 35a, 43) are provided for controlling the pressure of the cooling medium in the first plenum (41), and second means (42, 45, 46) are used which cause the cover plate (21) to be cooled by means of cooling medium that escapes in a targeted manner from the first plenum (41).

IPC 8 full level

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