

Title (en)
BLADE ARRANGEMENT OF A GAS TURBINE

Title (de)
SCHAUFELANORDNUNG EINER GASTURBINE

Title (fr)
DISPOSITIF D'AUBES D'UNE TURBINE À GAZ

Publication
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Application
EP 09781705 A 20090811

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Abstract (en)
[origin: WO2010018174A1] The invention relates to the blade arrangement (30) of a gas turbine with at least one blade (11), which protrudes in the radial direction into a hot gas channel (13) arranged concentrically in relation to an axis (16) and ends in a blade tip (27), which lies opposite, with a clearance (25), a heat shield (12) bounding the hot gas channel (13), wherein the blade (11) and the heat shield (12) are movable in relation to each other in the circumferential direction, and the blade tip (27) and the heat shield (12) are covered with layers (22, 23, 24) that make it possible for the blade tip (27) to grind into the heat shield (12) in a specifically intended manner. With such a blade arrangement, a reduction in the clearance by allowing grinding-in is achieved in a simplified way by the heat shield (12) having an exterior abradable layer of a porous thermal barrier coating (23), and by the blade tip (27) being provided with a homogeneous metallic covering layer (24).

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Citation (examination)
US 2003175116 A1 20030918 - LE BIEZ PHILIPPE [FR], et al

Citation (opposition)
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