

Title (en)

GUIDE BLADE FOR A GAS TURBINE AND ASSOCIATED GAS TURBINE

Title (de)

LEITSCHAUFEL FÜR EINE GASTURBINE UND ZUGEHÖRIGE GASTURBINE

Title (fr)

AUBE DIRECTRICE POUR UNE TURBINE À GAZ ET TURBINE À GAZ ASSOCIÉE

Publication

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Application

EP 09755892 A 20091116

Priority

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- CH 18452008 A 20081126

Abstract (en)

[origin: WO2010060823A1] A guide blade (20) for a gas turbine (10), in particular for the low-pressure turbine (18) of a gas turbine (10) with sequential combustion, has an aerofoil (22) extending in a radial direction between a blade head (23) and a shroud (21), wherein the aerofoil (22) extends transversely to the direction of the hot gas flow (30) between a leading edge (27) and a trailing edge (28) and has a pressure side (31) and a suction side, and wherein a cooling slit (29) running parallel to the trailing edge (28) is provided upstream of the trailing edge (28) on the pressure side (31) and allows a cooling medium to emerge from the guide blade (20) over the entire length of said guide blade (20) and cool the trailing edge (28) thereof. With such a guide blade, the service life is extended by means (33) for reducing thermal stresses being provided on the blade head (23) underneath the trailing edge (28) and the cooling slit (29).

IPC 8 full level

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CPC (source: EP US)

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