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(54) **HEAT SHIELD FOR A GAS TURBINE**

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(57) **ABSTRACT**

(21) Appl. No.: **09/540,526**

A heat shield for a gas turbine, which heat shield encloses in particular the rotating blades of a stage of the gas turbine in an annular manner, consists of a plurality of heat-shield segments (13), which are arranged one behind the other in the circumferential direction, are curved in a circular-segment shape and are cooled from outside, and the longitudinal sides of which are designed as correspondingly curved rails running in the circumferential direction and possibly provided with recesses and having in each case a first arm (18) projecting in the axial direction, and which, for fastening to the casing of the gas turbine, are mounted with the first arms (18) in each case in an annular intermediate space (20) of constant width.

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In such a heat shield, a mounting free of mechanical stresses is achieved owing to the fact that the first arms (18) have a width which varies in the circumferential direction, and is essentially equal to the width of the intermediate spaces at the end faces of the heat-shield segment (13) and decreases toward the center plane (16) of the heat-shield segment (13) in such a way that the heat-shield segment (13), during thermal loading, can stretch unhindered with its first arms (18) in a predetermined region in the intermediate spaces (20).

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**6 Claims, 3 Drawing Sheets**

