

Title (en)

TURBINE CASING HEAT SHIELD IN A GAS TURBINE ENGINE

Title (de)

TURBINENGEHÄUSEHITZESCHILD FÜR TURBOLUFTSTRAHLTRIEBWERKE

Title (fr)

BOUCLIER THERMIQUE POUR CARTER DE TURBINE DE TURBORÉACTEUR

Publication

EP 3450703 B1 20200520 (EN)

Application

EP 18188164 A 20180809

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Abstract (en)

[origin: EP3450703A1] The present invention relates to a system for reducing heat exposure of a turbine casing in a gas turbine engine. The system may include a blade track (174) coupled with a turbine casing (188) with a clip (172). The system may further include a nozzle guide vane (178) coupled to the turbine casing (188). A cavity (182) may be formed by an end of the blade track (174), the clip (172), and a portion of the nozzle guide vane (178). A heat shield (170) is positioned between the clip (172) and the end of the blade track (174) in the cavity (182) such that an edge (176) of the heat shield (170) and the portion of the nozzle vane (178) form a gap (180). The heat shield (170) and the nozzle guide vane (178) may be positioned such that the gap (180) closes in response to their respective thermal expansion.

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