

Title (en)  
GAS TURBINE HAVING AN IMPROVED COOLING ARCHITECTURE

Title (de)  
GASTURBINE MIT VERBESSERTER KÜHLARCHITEKTUR

Title (fr)  
TURBINE À GAZ À ARCHITECTURE DE REFROIDISSEMENT AMÉLIORÉE

Publication  
**EP 2242915 B1 20180613 (DE)**

Application  
**EP 09713405 A 20090216**

Priority

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- CH 2442008 A 20080220

Abstract (en)  
[origin: WO2009103671A1] A thermal machine, in particular a gas turbine, comprises a hot gas duct that is externally delimited by a shell (21). A cooling duct (20) formed by the shell (21) and a cooling jacket (19) that externally surrounds the shell (21) is designed on the external side of the shell (21) in order for a cooling medium, especially cooling air (24), to have a convective cooling effect. In order to extend the service life of such a machine, the cooling jacket (19) has corresponding local deflections (26) in the conduction of the cooling medium flow such that local irregularities in the thermal stress on the shell (21) or in the cooling medium flow within the cooling duct (20) are compensated.

IPC 8 full level  
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