

Title (en)

Impingement cooling apparatus for a gas turbine shroud system

Title (de)

Vorrichtung zur Prallkühlung des Deckbandes in einer Gasturbine

Title (fr)

Dispositif de refroidissement par impact pour une bande de protection de turbine à gaz

Publication

EP 1124039 A1 20010816 (EN)

Application

EP 00301015 A 20000209

Priority

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Abstract (en)

An inner shroud (22) is coupled to an outer shroud (20) which receives cooling air through an inlet (54) for flow to the inner shroud. The inner shroud includes a wall (42) which defines in part the hot gas path (16) and a plurality of cavities 44 on an opposite side of the wall. The inner shroud includes a cover (40) having depending compartments (52) with apertures through the floor of the compartments. When the cover overlies the inner shroud body, the compartments are received in the cavities and cooling air from the inlet flows into the compartments and through the apertures for impingement cooling of the inner shroud wall. Spent cooling air exits the inner shroud through passages (45) through circumferential and/or axial facing side walls of the inner shroud and/ or the wall of the inner shroud defining the hot gas path. <IMAGE>

IPC 1-7

F01D 25/12

IPC 8 full level

F01D 11/08 (2006.01); **F01D 11/10** (2006.01); **F01D 25/12** (2006.01)

CPC (source: EP)

F01D 11/08 (2013.01); **F01D 11/10** (2013.01); **F01D 25/12** (2013.01); **F05D 2260/201** (2013.01)

Citation (applicant)

EP 0959230 A2 19991124 - GEN ELECTRIC [US]

Citation (search report)

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