Title (en)

ARRANGEMENT AND METHOD FOR CLOSED FLOW COOLING OF A GAS TURBINE ENGINE COMPONENT

Title (de)

VORRICHTUNG UND VERFAHREN ZUR KÜHLUNG EINER GASTURBINENMOTORKOMPONENTE IN EINEM GESCHLOSSENEN KREISLAUF

Title (fr)

AGENCEMENT ET PROCÉDÉ POUR LE REFROIDISSEMENT À CIRCUIT FERMÉ D'UN COMPOSANT DE MOTEUR DE TURBINE À GAZ

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Application

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Priority

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Abstract (en)

[origin: WO2011075013A1] The invention concerns an arrangement for cooling a gas turbine engine component, said arrangement comprising: a gas turbine engine component (20, 200) provided with at least one cooling channel (50, 261-264, 225) through which a cooling medium is intended to flow during operation of the arrangement, a feeding system (40) configured to supply cooling medium to the cooling channel (50, 261-264, 225), a cooling channel inlet (27, 51, 270), and a cooling channel outlet (28, 52, 280). The invention is characterized in that the feeding system (40) is arranged in flow communication with both the inlet (27, 51, 270) and the outlet (28, 52, 280) of the cooling channel (50, 261-264, 225) such as to form a closed flow system. The invention also relates to a gas turbine engine provided with such a component and a method for cooling such a component.

IPC 8 full level

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