

Title (en)

APPARATUS FOR CONTROLLED DELIVERY OF COOLING AIR TO TURBINE BLADES IN A GAS TURBINE

Title (de)

VORRICHTUNG ZUR KONTROLLIERTEN ABGABE VON KÜHLLUFT AN TURBINENSCHAUFELN IN EINER GASTURBINE

Title (fr)

APPAREIL D'ADMINISTRATION CONTRÔLÉE D'AIR DE REFROIDISSEMENT POUR AUBES DE TURBINE DANS UNE TURBINE À GAZ

Publication

**EP 3495611 B1 20200729 (EN)**

Application

**EP 17205756 A 20171206**

Priority

EP 17205756 A 20171206

Abstract (en)

[origin: EP3495611A1] An apparatus for controlled delivery of cooling air to turbine blades (5) in a gas turbine (1) including a rotor unit (4), at least a first and second row of turbine blades (5), a plurality of rotor heat shield elements (23) disposed in a circumferential row between the first and second rows of turbine blades (5) and configured to define with said rotor unit (4) a rotor heat shield passage (33, 34, 35, 36) that is fed with cooling air, and a plurality of lock plates (41, 42, 43) disposed in a circumferential row and configured to secure at least one of said first and second rows (6, 7, 8) of turbine blades (5) to the rotor unit (4), wherein a radial portion (28) of the rotor shield elements (23) and/or the lock plates (41, 42, 43) include at least one opening (49) for controlled flow of cooling air.

IPC 8 full level

**F01D 5/08** (2006.01); **F01D 11/00** (2006.01); **F01D 25/08** (2006.01)

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**F01D 5/081** (2013.01 - CN); **F01D 5/3015** (2013.01 - EP); **F01D 11/001** (2013.01 - EP); **F01D 5/081** (2013.01 - EP)

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