

Title (en)
Gap seal for airfoils of a turbomachine

Title (de)
Spaltdichtung für Schaufeln einer Turbomaschine

Title (fr)
Joint d'étanchéité pour le jeu d'aubes d'une turbomachine

Publication
EP 1995413 B1 20100428 (DE)

Application
EP 08153316 A 20080326

Priority
CH 5732007 A 20070405

Abstract (en)
[origin: US2008247867A1] A gap seal (9) radially seals a gap (8) which extends axially and radially between two blades (1, 2) of a turbomachine which are adjacent in the circumferential direction (3). The two blades (1, 2) have, in each case, an axially extending longitudinal slot (10, 11), which is open towards the gap (8), on its respective blade root (6, 7). A band-form or strip-form sealing element (12) engages with its longitudinal sides (13, 14) in the two longitudinal slots (10, 11) and bridges the gap (8). The one blade (1) has a projection (15) on its blade root (6), which projects from the blade root (6) in the circumferential direction (3) and extends in the circumferential direction (3) and radially, at least in the region of the respective longitudinal slot (10), and bridges an axial longitudinal end of the gap (8) in the process. The other blade (2) has a step-shaped recess (16) on its blade root (7), complementary to the projection (15) of the one blade (1) and in which the projection engages. The projection (15) has a transverse slot (17) which extends in the circumferential direction (3) and is open towards the gap (8). The sealing element (12) engages with an end face (18) in the transverse slot (17).

IPC 8 full level
F01D 11/00 (2006.01)

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