

Title (en)

Shroud band for axial flow turbine.

Title (de)

Deckband für axialdurchströmte Turbine.

Title (fr)

Bande de recouvrement pour roue de turbine axiale.

Publication

EP 0536575 A1 19930414 (DE)

Application

EP 92116009 A 19920918

Priority

CH 296591 A 19911008

Abstract (en)

[origin: JPH05195988A] PURPOSE: To provide circumferential shroud plates that can guarantee smooth guidance of a main flow without separation and achieve a good sealing action in addition to a good sealing action. CONSTITUTION: In a device for sealing a gap between rotor blades 6 and a casing 2 of a turbomachine, the rotor blades 6 are provided with ring-shaped circumferential shroud plates 11 which seal by a plurality of serrations 12-15 against the casing 2 with the formation of radial gaps 16-18, and the casing 2 is configured with a conical profile 28. Further, the shroud plate 11, which is arranged at the end of the blade, has four throttle locations relative to the casing, and the inlet end throttle location forms a diagonal gap 19 in a stationary operation state.

Abstract (de)

Bei einer Vorrichtung zur Dichtung des Spaltes zwischen den Laufschaufeln und dem mit konischer Kontur (28) ausgebildeten Gehäuse (2) einer Turbomaschine sind die Laufschaufeln (6) mit umlaufenden Deckplatten (11) versehen, welche mit Zacken (12, 13, 14, 15) unter Bildung von Radialspalten (16, 17, 18) gegen das Gehäuse dichten. Die am Schaufelende angeordnete Deckplatte (11) weist vier Drosselstellen gegen das Gehäuse auf, wobei die eintrittseitige Drosselstelle einen Diagonalspalt (19) begrenzt und die austrittseitige Drosselstelle einen Radialspalt (16) bildet. <IMAGE>

IPC 1-7

F01D 5/20; F01D 11/08

IPC 8 full level

F01D 5/20 (2006.01); **F01D 5/22** (2006.01); **F01D 11/08** (2006.01); **F01D 11/12** (2006.01); **F04D 29/08** (2006.01)

CPC (source: EP US)

F01D 5/225 (2013.01 - EP US); **F01D 11/08** (2013.01 - EP US); **F01D 11/12** (2013.01 - EP US)

Citation (search report)

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