

Title (en)

Honeycomb seal for a thermal turbomachine

Title (de)

Honigwabendichtung für eine thermische Turbomaschine

Title (fr)

Joint à nid d'abeilles pour une turbomachine thermique

Publication

EP 1179654 B1 20100505 (DE)

Application

EP 01115956 A 20010629

Priority

DE 10038452 A 20000807

Abstract (en)

[origin: US2002015641A1] The invention relates to a honeycomb structure (1) which is arranged on a stator of a gas turbine and which is arranged opposite the moving blades of the gas turbine. The honeycomb structure (1) is composed of metal sheets (5) in such a way that webs (3) having double the sheet thickness are obtained and connections (4) of single thickness are obtained between the webs (3). The angle (alpha) between the circumferential direction (2) of the stator and the webs (3) of double thickness is 5° to 175°. This serves to avoid undesirable effects such as, for example, overheating during friction at the honeycomb structure (1) of the moving blades of the gas turbine.

IPC 8 full level

F01D 11/12 (2006.01)

CPC (source: EP US)

F01D 11/127 (2013.01 - EP US); **F05D 2250/283** (2013.01 - EP US)

Cited by

DE10247031A1; EP1918531A3; EP2813671A1; US9822659B2

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EP 1179654 A2 20020213; EP 1179654 A3 20030723; EP 1179654 B1 20100505; DE 10038452 A1 20020221; DE 10038452 B4 20110526; DE 50115465 D1 20100617; US 2002015641 A1 20020207; US 6575698 B2 20030610

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