Title (en)

TURBOENGINE FLOW CHANNEL

Title (de)

TURBOMASCHINENSTRÖMUNGSKANAL

Title (fr)

CANAL D'ÉCOULEMENT DE TURBOMACHINE

Publication

EP 3495629 B1 20230111 (DE)

Application

EP 18209511 A 20181130

Priority

DE 102017222193 A 20171207

Abstract (en)

[origin: US2019178095A1] A flow channel for a turbomachine, in particular a gas turbine, having a plurality of ribs (11-23) that are disposed between a radially inner lateral surface (2) and a radially outer lateral surface (1) of the flow channel and are circumferentially distributed; a first rib (11) of the ribs having a first rib thickness (d11) and a first rib length (l11), and a second rib (12) of the ribs having a second rib thickness (d12) and a second rib length (l12), the second rib length being shorter than the first rib length, and/or the second rib thickness being smaller than the first rib thickness; and, disposed within the first rib is a first internal structure (31) which has a first structural thickness (d31), and disposed within the second rib is a second internal structure (32) which has a second structural thickness (d32) that is smaller than the first structural thickness; and/or a spacing (T12) in the circumferential direction between the first rib and the second rib adjacent thereto, and a spacing (T23) in the circumferential direction between at least two adjacent ribs (12, 13) of the ribs mutually deviating, and at least one of these ribs having a non-deflecting external profile (A11, A12) and or an internal structure (32) being disposed therein.

IPC 8 full level

F01D 25/16 (2006.01); **F01D 9/06** (2006.01)

CPC (source: EP US)

F01D 9/023 (2013.01 - US); **F01D 9/041** (2013.01 - US); **F01D 9/065** (2013.01 - EP US); **F01D 25/162** (2013.01 - EP US); F05D 2240/12 (2013.01 - US); F05D 2260/961 (2013.01 - EP US)

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DOCDB simple family (publication)

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