Title (en)

Side plate

Title (de)

Seitenplatte

Title (fr)

Plaque latérale

Publication

EP 1703082 A1 20060920 (EN)

Application

EP 06250366 A 20060124

Priority

GB 0503681 A 20050223

Abstract (en)

It is known there is ingestion of hot gas flow 35 from an annular flow 36 in gas turbine engines. This flow 35 is prevented from attaching to the disc by coolant flow 32 passing through gaps in lock plates 28, 29 by creation of a barrier layer. In order to regulate and enhance this effect spacer protrusions 31 are provided between ends of lock plates 28, 29. In such circumstances the gap 30 is controlled and therefore the rate of leakage flow 32 regulated for best cooling effect. This cooling effect and cooling flow 32 can be further enhanced by providing chutes 39 for presentation of the coolant flow 32.

IPC 8 full level

F01D 5/30 (2006.01); **F01D 5/08** (2006.01)

CPC (source: EP)

F01D 5/081 (2013.01); **F01D 5/3015** (2013.01)

Citation (search report)

- [X] US 4582467 A 19860415 - KISLING DOUGLAS L [US]
- [X] US 3807898 A 19740430 - GUY K, et al
- [A] EP 1284339 A1 20030219 - SIEMENS AG [DE]
- [A] EP 0916808 A2 19990519 - ROLLS ROYCE PLC [GB]

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1703082 A1 20060920; **EP 1703082 B1 20100825**; DE 602006016360 D1 20101007; GB 0503681 D0 20050330

DOCDB simple family (application)

EP 06250366 A 20060124; DE 602006016360 T 20060124; GB 0503681 A 20050223