

Title (en)
INTERRUPTED CIRCUMFERENTIAL GROOVE STATOR STRUCTURE

Title (de)
STATORSTRUKTUR MIT UNTERBROCHENEN RINGNUTEN

Title (fr)
STRUCTURE DE STATOR A RAINURES CIRCONFERENCELLES INTERROMPUES

Publication
EP 0774050 B1 19990310 (EN)

Application
EP 95922886 A 19950524

Priority
• US 9506582 W 19950524
• US 25979194 A 19940614

Abstract (en)
[origin: WO9534745A1] A stator structure such as the fan casing (34) of a gas turbine engine extending circumferentially about an array of rotor blades is disclosed. Various construction details which increase the surge margin of the construction with a minimal impact on aerodynamic efficiency are developed. In one particular embodiment, the fan casing has a groove region (62) which extends radially outwardly of the mid-chord region (58) of the blades. The groove region has a plurality of circumferentially extending grooves (38) which are interrupted in a circumferential direction by a plurality of dams (42).

IPC 1-7
F01D 11/08; **F01D 11/02**

IPC 8 full level
F01D 11/02 (2006.01); **F01D 11/08** (2006.01); **F04D 29/54** (2006.01)

CPC (source: EP)
F01D 11/02 (2013.01); **F01D 11/08** (2013.01); **F04D 29/526** (2013.01); **F04D 29/685** (2013.01)

Cited by
CN106968986A; US10487847B2; US10465716B2; US10107307B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 9534745 A1 19951221; DE 69508256 D1 19990415; DE 69508256 T2 19991014; EP 0774050 A1 19970521; EP 0774050 B1 19990310; JP 3640396 B2 20050420; JP H10501318 A 19980203; TW 268070 B 19960111

DOCDB simple family (application)
US 9506582 W 19950524; DE 69508256 T 19950524; EP 95922886 A 19950524; JP 50219196 A 19950524; TW 84106058 A 19950614