

Title (en)

Flow straightener for a turbo engine

Title (de)

Drallbrecher für eine Strömungsmaschine

Title (fr)

Dispositif de rupture de tourbillon pour turbomachine

Publication

EP 2031184 A1 20090304 (DE)

Application

EP 07017133 A 20070831

Priority

EP 07017133 A 20070831

Abstract (en)

The turbo machine has a rotor which is supported around a rotation axis in a rotating manner and a housing is arranged around the rotor. The housing has a housing inner surface formed opposite to the rotor in a circumferential direction. A turbulence cancelling unit (19) is arranged on the housing interior surface for reducing the turbulence of the secondary flow. The turbulence cancelling unit wall has a turbulence cancelling unit front wall (24) and a turbulence cancelling unit rear wall (25) curved around edges (23).

Abstract (de)

Die Erfindung betrifft eine Strömungsmaschine, umfassend einen Rotor (8) und ein Gehäuse (4,2), wobei ein Spalt (15) zwischen dem Rotor (8) und dem Gehäuse mittels Drallbrechern (19) derart ausgebildet ist, dass ein Drall einer Sekundärströmung vermindert wird, wobei der Drallbrecher (19) materialeinstückig aus einem einzigen Band ausgebildet ist.

IPC 8 full level

F01D 5/14 (2006.01); **F01D 11/02** (2006.01); **F01D 11/08** (2006.01); **F04D 29/68** (2006.01)

CPC (source: EP)

F01D 5/145 (2013.01); **F01D 11/02** (2013.01); **F01D 11/08** (2013.01); **F04D 29/164** (2013.01); **F04D 29/681** (2013.01); **F05D 2240/126** (2013.01); **F05D 2250/184** (2013.01); **F05D 2250/611** (2013.01)

Citation (search report)

- [X] EP 0122892 A1 19841024 - FLAEKT AB [SE]
- [X] EP 1515000 A1 20050316 - ALSTOM TECHNOLOGY LTD [CH]
- [X] EP 1069315 A2 20010117 - HITACHI LTD [JP], et al
- [X] US 5489186 A 19960206 - YAPP MARTIN G [US], et al
- [X] GB 2340189 A 20000216 - SIEMENS PLC [GB]
- [A] DE 2462465 A1 19770428 - MASCHF AUGSBURG NUERNBERG AG [DE]

Cited by

EP2428649A1; CN103109041A; WO2012032105A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 2031184 A1 20090304

DOCDB simple family (application)

EP 07017133 A 20070831