Title (en)

ROTOR DISC WITH AXIAL RETENTION OF THE BLADES, ASSEMBLY OF A DISC AND A RING, AND TURBOMACHINE

Title (de)

ROTORSCHEIBE MIT AXIALER HALTERUNG DER SCHAUFELN, ANORDNUNG EINER SCHEIBE UND EINES RINGES UND TURBOMASCHINE

Title (fr)

DISQUE DE ROTOR AVEC ARRET AXIAL DES AUBES, ENSEMBLE D'UN DISQUE ET D'UN ANNEAU ET TURBOMACHINE

Publication

EP 3847339 B1 20221228 (FR)

Application

EP 19774140 A 20190826

Priority

- FR 1857926 A 20180904
- FR 2019051963 W 20190826

Abstract (en)

[origin: WO2020049238A1] The invention relates to a rotor disc (36) for a turbomachine (10), the disc (36) extending circumferentially about an axis (A) and having a plurality of cells (60) configured to receive the roots of blades (58), each cell (60) having a downstream radial wall (64) configured to axially lock the blade root (58) in the cell (60), each downstream radial wall (64) comprising a ventilation channel (66) for the cell (60) having an inlet orifice (68), which opens into the cell (60), and an outlet orifice (70), which opens onto a downstream surface of the disc (36). The invention also relates to an assembly for a turbomachine, comprising such a disc (36) and an upstream retaining ring, and to a turbomachine comprising such an assembly.

IPC 8 full level

F01D 5/08 (2006.01); **F01D 5/30** (2006.01); **F01D 5/32** (2006.01); **F01D 11/00** (2006.01)

CPC (source: EP US)

F01D 5/081 (2013.01 - EP US); **F01D 5/082** (2013.01 - EP); **F01D 5/087** (2013.01 - EP); **F01D 5/30** (2013.01 - US); **F01D 5/3007** (2013.01 - EP); **F01D 5/3015** (2013.01 - EP); **F01D 5/32** (2013.01 - EP); **F01D 11/006** (2013.01 - EP); F05D 2220/323 (2013.01 - US); F05D 2240/30 (2013.01 - US); F05D 2260/201 (2013.01 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

FR 3085420 A1 20200306; **FR 3085420 B1 20201113**; CN 112585334 A 20210330; CN 112585334 B 20230915; EP 3847339 A1 20210714; EP 3847339 B1 20221228; US 11486252 B2 20221101; US 2021355830 A1 20211118; WO 2020049238 A1 20200312

DOCDB simple family (application)

FR 1857926 A 20180904; CN 201980053668 A 20190826; EP 19774140 A 20190826; FR 2019051963 W 20190826; US 201917266653 A 20190826