

Title (en)

Drum of axial turbomachine compressor with mixed fixation of blades

Title (de)

Kompressortrommel einer axialen Turbomaschine mit gemischter Befestigung der Laufradschaufeln

Title (fr)

Tambour de compresseur de turbomachine axiale avec fixation mixte d'aubes

Publication

**EP 2818635 B1 20190410 (FR)**

Application

**EP 13173510 A 20130625**

Priority

EP 13173510 A 20130625

Abstract (en)

[origin: CA2853663A1] The invention relates to a rotor drum of a low-pressure compressor of an axial turbomachine. The drum comprises a wall generally symmetrical in revolution about its axis and following a generally curved profile. The wall is designed to support a plurality of blade rows. A first blade row is formed by an annular platform integrally formed with the wall at the peak of its profile in relation to the axis; and a second blade row directly downstream of the first and a third blade row directly upstream of the first are formed by one or more blade-retaining grooves formed on the wall. The first blade row and the drum form an integral assembly, eliminating certain vibrations. Anchoring the blades is hybrid or mixed. The rotor may be mounted in a housing with ring-shaped stators.

IPC 8 full level

**F01D 5/06** (2006.01); **F04D 29/32** (2006.01)

CPC (source: EP US)

**F01D 5/06** (2013.01 - EP US); **F01D 5/063** (2013.01 - US); **F01D 5/3007** (2013.01 - US); **F01D 11/001** (2013.01 - US);  
**F04D 29/023** (2013.01 - EP US); **F04D 29/322** (2013.01 - EP US)

Citation (examination)

US 8087884 B2 20120103 - WOOD PETER JOHN [US], et al

Cited by

EP3726006A1; BE1027190A1; EP3690192A1; BE1027025A1; US11346224B2

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)

**EP 2818635 A1 20141231; EP 2818635 B1 20190410;** CA 2853663 A1 20141225; CN 104251232 A 20141231; CN 104251232 B 20190430;  
RU 2014125101 A 20151227; RU 2576354 C2 20160227; US 2014377070 A1 20141225

DOCDB simple family (application)

**EP 13173510 A 20130625;** CA 2853663 A 20140609; CN 201410290159 A 20140625; RU 2014125101 A 20140620;  
US 201414315097 A 20140625