

Title (en)

Segmented shroud assembly suitable for compensating a rotor misalignment relative to the stator

Title (de)

Segmentierter Stator-Außenring zum Kompensieren von Rotorverschiebungen gegenüber dem Stator

Title (fr)

Virole externe segmentée apte à compenser un désalignement du rotor par rapport au stator

Publication

EP 2495399 B1 20161123 (FR)

Application

EP 11156828 A 20110303

Priority

EP 11156828 A 20110303

Abstract (en)

[origin: EP2495399A1] The housing (12) has a segmented shell (22) that is structured and operable to enclose a row of blades (24) and supported by a structural wall. Elastically deformable units (30) are positioned between the wall and segments of the shell so as to radially displace the segments in the event of contact with tips of the blades of a rotor and in the event of misalignment of a rotation axis of the rotor relative to an axis of the housing. The deformable units comprise elements made of elastically deformable materials e.g. elastomeric materials. An independent claim is also included for an axial turbomachine compressor.

IPC 8 full level

F01D 11/12 (2006.01); **F04D 29/52** (2006.01)

CPC (source: EP RU US)

F01D 11/122 (2013.01 - EP US); **F04D 29/526** (2013.01 - EP US); **F01D 11/12** (2013.01 - RU); **F05D 2240/11** (2013.01 - EP US); **F05D 2250/312** (2013.01 - EP US); **F05D 2260/38** (2013.01 - EP US); **F05D 2300/501** (2013.01 - EP US)

Citation (examination)

- US 5456576 A 19951010 - LYON BRUCE V [US]
- EP 1408200 A2 20040414 - ROLLS ROYCE DEUTSCHLAND [DE]

Cited by

FR3025261A1; WO2016034804A1; EP3006679A1; US10082038B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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EP 11156828 A 20110303; CA 2769815 A 20120228; CN 201210142291 A 20120305; RU 2012107669 A 20120301; US 201213407948 A 20120229