

Title (en)  
Metallic shroud structure

Title (de)  
Ringstruktur in Metallbauweise

Title (fr)  
Structure de virole métallique

Publication  
**EP 1149985 B1 20041208 (DE)**

Application  
**EP 01110386 A 20010426**

Priority  
DE 10020673 A 20000427

Abstract (en)  
[origin: EP1149985A2] The metal housing structure for the running blade area of axially through-flowed compressor and turbine stages, particularly in gas turbine drive units, has a circular ring-shaped, closed, mechanically stable outer wall and an inner wall segmented by multiple peripheral expansion seams and at a reduced radial distance from the running blade points. A connecting structure transmitting load at least in a radial direction is provided between the inner and outer wall. As a connecting structure, a hollow chamber structure (10) multiply divided extends at least over the main part of facing surface areas of inner (5) and outer (3) walls and has a number of thin, upright directly cohesive wall components on the inner and outer walls at an angle to each other. The hollow chamber structure is soldered to the inner and/or outer wall.

IPC 1-7  
**F01D 11/12**

IPC 8 full level  
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CPC (source: EP US)  
**F01D 11/122** (2013.01 - EP US)

Cited by  
EP2050931A3; EP2728124A1; GB2362432B; US11125101B2; US8092148B2; US10760527B2; US9963993B2; WO2014207054A1; WO2008011864A1

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