

Title (en)  
Sealing device and turbo-machine

Title (de)  
Dichteinrichtung und Strömungsmaschine

Title (fr)  
Dispositif d'étanchéité et turbomachine

Publication  
**EP 2818643 B1 20180808 (DE)**

Application  
**EP 14172050 A 20140612**

Priority  
DE 102013212480 A 20130627

Abstract (en)  
[origin: US2015001811A1] A sealing device (1) is disclosed for sealing a radially inner gas channel (2) between a guide vane ring (4) and a rotor (6) of a turbomachine, wherein the sealing device (1) has a sealing ring (8) for forming a sealed space (10) with a rear segment, with an inner wall structure (30) oriented in the opposite direction, which are joined to each other via an annular arch (32), wherein the radial flange (18) transitions into the outer wall structure (28) and the cylinder (26) forms the sealing ring (8), wherein the inner wall structure (30) transitions, via an annular web (36), into at least one inner body segment (38, 50), wherein the sealing device (1) has a uniform, preferably relatively reduced wall thickness over its individual segments integrally formed with one another, so that the sealing device (1) is resilient within certain limits.

IPC 8 full level  
**F01D 11/02** (2006.01); **F01D 11/00** (2006.01)

CPC (source: EP US)  
**F01D 11/001** (2013.01 - EP US); **F01D 11/02** (2013.01 - US); **F05D 2230/30** (2013.01 - EP US)

Cited by  
DE102018201295A1; US11125101B2; US10844737B2

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 2818643 A1 20141231**; **EP 2818643 B1 20180808**; ES 2684775 T3 20181004; US 2015001811 A1 20150101; US 9664059 B2 20170530

DOCDB simple family (application)  
**EP 14172050 A 20140612**; ES 14172050 T 20140612; US 201414312291 A 20140623