

Title (en)
Turbomachine with clamping ring

Title (de)
Strömungsmaschine mit Klemmring

Title (fr)
Turbomachine avec collier de serrage

Publication
EP 2696036 A1 20140212 (DE)

Application
EP 12179765 A 20120809

Priority
EP 12179765 A 20120809

Abstract (en)
The turbomachine has a housing (1) radially surrounding a flow channel (6), and a sealing or lining element (11) placed between the flow channel and the housing. A clamping ring (14) is arranged partially and circumferentially around the flow channel to abut a contact surface of the sealing or lining element. The clamping ring surrounds the flow channel as a closed ring. The clamping ring includes an outer ring (16) and an inner ring (15) that is spaced at distance from the outer ring along radial direction, where the clamping ring is set between the outer ring and the inner ring.

Abstract (de)
Die vorliegende Erfindung betrifft eine Strömungsmaschine mit einem Strömungskanal (6) und einem Gehäuse (1,2), welches den Strömungskanal radial umgibt, wobei zwischen Strömungskanal und Gehäuse mindestens ein Abdicht- oder Auskleidungselement (11) angeordnet ist, wobei mindestens ein Klemmring (14) vorgesehen ist, der umlaufend um den Strömungskanal angeordnet ist und gegen mindestens eine Anpressfläche (22) des mindestens einen Abdicht- oder Auskleidungselement (11) anliegend angeordnet ist.

IPC 8 full level
F01D 9/04 (2006.01); **F01D 25/24** (2006.01)

CPC (source: EP US)
F01D 9/042 (2013.01 - EP US); **F01D 25/24** (2013.01 - US); **F01D 25/246** (2013.01 - EP US); **F05D 2230/60** (2013.01 - EP US); **F05D 2240/11** (2013.01 - EP US); **F05D 2260/30** (2013.01 - EP US)

Citation (search report)
• [X] US 5228828 A 19930720 - DAMLIS NICHOLAS [US], et al
• [X] WO 0075492 A1 20001214 - PRATT & WHITNEY CANADA [CA]
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• [X] US 2007031245 A1 20070208 - RUTHEMEYER MICHAEL A [US], et al
• [X] EP 1847686 A1 20071024 - SNECMA [FR]
• [E] EP 2540994 A1 20130102 - GEN ELECTRIC [US]
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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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2696036 A1 20140212; US 2014044538 A1 20140213; US 9664065 B2 20170530

DOCDB simple family (application)
EP 12179765 A 20120809; US 201313960938 A 20130807