

Title (en)
Guide blade assembly, assembly method and fluid flow engine

Title (de)
Leitschaufelkranz, Montageverfahren und Strömungsmaschine

Title (fr)
Stator, procédé de montage et turbomachine

Publication
EP 2716874 A1 20140409 (DE)

Application
EP 12187575 A 20121008

Priority
EP 12187575 A 20121008

Abstract (en)
The guide blade assembly (1) has multiple rotatable guide blades (2), an inner ring (4) with two half-rings for radial inner stabilization of the guide blades, and a circular seal carrier (8). The shaped elements (6) are inserted in opposite recesses of the half ring segments, which cooperate with wall sections of the recesses in a form-fit or force-fit manner. The half ring segments have a centering section (26), on which a guide blade is guided in each case. An independent claim is included for a method for mounting a guide blade assembly.

Abstract (de)
Offenbart ist ein Leitschaufelkranz (1) mit verstellbaren Leitschaufeln (2), die jeweils radial innen an einem Zentrierabschnitt eines Formelements (6) geführt sind, das in gegenüberliegenden innenringseitigen Ausnehmungen (40,52) auf einer axialen Trennebene (T) des Innenrings (4) formschlüssig eingesetzt ist, ein Montageverfahren zum Montieren eines derartigen Leitschaufelkranzes sowie eine Strömungsmaschine mit einem derartigen Leitschaufelkranz.

IPC 8 full level
F01D 11/00 (2006.01); **F01D 17/16** (2006.01); **F04D 29/56** (2006.01)

CPC (source: EP)
F01D 11/001 (2013.01); **F01D 17/162** (2013.01); **F04D 29/563** (2013.01); **F04D 29/644** (2013.01)

Citation (search report)
• [X] DE 102008032661 A1 20100114 - MTU AERO ENGINES GMBH [DE]
• [I] EP 0546935 A1 19930616 - SNECMA [FR]

Cited by
US2016238028A1; EP3460196A1; EP3203035A1; EP3056684A1; US10294963B2; US10450888B2; US10858959B2

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

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