

Title (en)
Assembly of guide vanes

Title (de)
Aufbau einer Leitschaufelstufe

Title (fr)
Architecture de redresseur

Publication
EP 2199544 A1 20100623 (FR)

Application
EP 08172599 A 20081222

Priority
EP 08172599 A 20081222

Abstract (en)
The stage has a set of fixed blades (2) connecting an inner collar (4) to an outer collar, where the exterior collar is realized by a composite material. The fixed blades have attachment platforms (7) with flat surfaces that co-operate with multiple juxtaposed flat facets. The flat facets are located on the inner face of the outer collar in order to ensure a flat type contact fixation between the fixed blades and the outer collar. The platforms are positioned side by side so as to present a continuous smooth surface to the airflow. An independent claim is also included for a method for manufacturing a rectifier stage for a turbine engine.

Abstract (fr)
La présente invention se rapporte à un étage redresseur de turbomachine comportant un ensemble d'aubes fixes (2) reliant une virole intérieure (4) à une virole extérieure (5), lesdites aubes fixes comportant des plate-formes (7) de fixation présentant des surfaces planes coopérant avec une pluralité de facettes planes juxtaposées, lesdites facettes planes se trouvant sur la face interne de la virole extérieure (5) afin d'assurer une fixation avec un contact de type plan/plan entre les aubes fixes (2) et la virole extérieure (5).

IPC 8 full level
F01D 9/04 (2006.01)

CPC (source: EP US)
F01D 9/042 (2013.01 - EP US)

Citation (applicant)

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- US 5584654 A 19961217 - SCHAEFER ROBERT A [US], et al
- US 5474419 A 19951212 - RELUZCO GEORGE [US], et al
- EP 1936121 A1 20080625 - TECHSPACE AERO [BE]
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Citation (search report)

- [AD] EP 1801357 A1 20070627 - TECHSPACE AERO [BE]
- [AD] US 6543995 B1 20030408 - HONDA KEITH T [US], et al
- [A] EP 1167693 A2 20020102 - GEN ELECTRIC [US]
- [A] DE 1476928 A1 19690731 - BERGMANN BORSIG VEB
- [A] WO 2008000014 A2 20080103 - FISCHER ADV COMPONENTS GMBH [AT], et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
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EP 08172599 A 20081222; CA 2686988 A 20091203; US 64006209 A 20091217