

Title (en)
TURBINE RING ASSEMBLY WITH CURVED RECTILINEAR SEATINGS

Title (de)
TURBINENRINGANORDNUNG MIT GEKRÜMMTEN GERADLINIGEN AUFNAHMEN

Title (fr)
ENSEMBLE D'ANNEAU DE TURBINE À APPUIS RECTILIGNES BOMBÉS

Publication
EP 3870807 A1 20210901 (FR)

Application
EP 19842803 A 20191210

Priority
• FR 1873403 A 20181219
• FR 2019052989 W 20191210

Abstract (en)
[origin: WO2020128222A1] A turbine ring assembly comprising ring sectors (10a, 10b) forming a turbine ring (1) and a ring support structure (3), each sector (10a, 10b) having, on a plane of section defined by an axial direction (DA) and a radial direction (DR) of the ring (1), a first and a second attachment lug (14, 16) extending in the radial direction (DR), and said structure (3) comprising a central shell ring (31) from which there extends, as projections, a first and a second radial flange (32, 36) between which the first and second attachment lugs (14, 16) of each sector (10a, 10b) are held. Each sector (10a, 10b) comprises rectilinear seatings (110) mounted on the faces of the first and second attachment lugs (14, 16) respectively in contact with the second annular flange (36) and the annular ring-flange (33) and comprising, along a tangent to the circumferential direction (DC), a thickness that is variable in the axial direction (DA) with a minimum thickness at the first and second ends (102, 104) of the sector (10a, 10b), and a maximum thickness in a middle portion (110m) of the rectilinear seating (110).

IPC 8 full level
F01D 9/04 (2006.01); **F01D 11/00** (2006.01); **F01D 11/08** (2006.01); **F01D 25/24** (2006.01)

CPC (source: EP US)
F01D 9/04 (2013.01 - EP US); **F01D 11/08** (2013.01 - EP US); **F01D 25/246** (2013.01 - EP US); **F01D 11/005** (2013.01 - EP); **F05D 2220/323** (2013.01 - EP); **F05D 2240/11** (2013.01 - EP US); **F05D 2240/14** (2013.01 - US); **F05D 2260/30** (2013.01 - EP US); **F05D 2260/941** (2013.01 - EP); **F05D 2300/6033** (2013.01 - EP)

Citation (search report)
See references of WO 2020128222A1

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)
WO 2020128222 A1 20200625; CN 113195872 A 20210730; CN 113195872 B 20220607; EP 3870807 A1 20210901; EP 3870807 B1 20230405; FR 3090731 A1 20200626; FR 3090731 B1 20210108; US 11441434 B2 20220913; US 2022025775 A1 20220127

DOCDB simple family (application)
FR 2019052989 W 20191210; CN 201980084318 A 20191210; EP 19842803 A 20191210; FR 1873403 A 20181219; US 201917311892 A 20191210