Title (en)

TURBINE RING FOR A TURBOMACHINE

Title (de)

TURBINENRING FÜR EINE TURBOMASCHINE

Title (fr)

ANNEAU DE TURBINE POUR TURBOMACHINE

Publication

EP 2971609 B1 20190807 (FR)

Application

EP 14720173 A 20140313

Priority

- FR 1352257 A 20130314
- FR 2014050579 W 20140313

Abstract (en)

[origin: WO2014140493A1] A turbine ring for a turbomachine, in particular for a helicopter, of which the vibratory behaviour is reduced. According to the invention, this turbine ring comprises an essentially cylindrical support (31), and one or a plurality of sectors (32) forming a crown configured to provide an air flow section, each sector (32) being fixed to the support (31) by an anchoring device (33a, 33b), in which the anchoring device (33a) comprises an anchoring part (35) belonging to the support (31) and protruding towards the sector (32), and an anchoring part (34) belonging to the sector (32) and protruding towards the support (31), the anchoring parts of the support (34) and of the sector (35) being configured to engage in order to fasten the sector (32) to the support (31), the ring further comprising a damping device (50) provided within the anchoring device (33a) and radially constrained between a portion of the sector (34e) and a portion of the support (31i) so as to dampen the relative movements of the sector (32) in relation to the support (31).

IPC 8 full level

F01D 5/04 (2006.01); **F01D 9/04** (2006.01); **F01D 11/00** (2006.01); **F01D 25/24** (2006.01)

CPC (source: EP RU US)

F01D 5/04 (2013.01 - US); **F01D 9/04** (2013.01 - EP RU US); **F01D 11/00** (2013.01 - RU); **F01D 11/005** (2013.01 - EP US); **F01D 25/24** (2013.01 - RU); **F01D 25/246** (2013.01 - EP US); F05D 2230/60 (2013.01 - EP US); F05D 2240/11 (2013.01 - EP US); F05D 2240/40 (2013.01 - EP US)

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)

WO 2014140493 A1 20140918; CA 2904951 A1 20140918; CA 2904951 C 20210126; CN 105189937 A 20151223; CN 105189937 B 20180330; EP 2971609 A1 20160120; EP 2971609 B1 20190807; FR 3003301 A1 20140919; FR 3003301 B1 20180105; JP 2016511362 A 20160414; JP 6453252 B2 20190116; KR 102199586 B1 20210107; KR 20150128882 A 20151118; PL 2971609 T3 20191231; RU 2015143679 A 20170426; RU 2015143679 A3 20180301; RU 2653710 C2 20180514; US 10138734 B2 20181127; US 2016024926 A1 20160128

DOCDB simple family (application)

FR 2014050579 W 20140313; CA 2904951 A 20140313; CN 201480014008 A 20140313; EP 14720173 A 20140313; FR 1352257 A 20130314; JP 2015562286 A 20140313; KR 20157028005 A 20140313; PL 14720173 T 20140313; RU 2015143679 A 20140313; US 201414774417 A 20140313