

Title (en)
TURBOMACHINE ASSEMBLY WITH DAMPER

Title (de)
TURBOMASCHINENANORDNUNG MIT DÄMPFER

Title (fr)
ENSEMBLE POUR TURBOMACHINE AVEC AMORTISSEUR

Publication
EP 3976926 B1 20240110 (FR)

Application
EP 20727321 A 20200527

Priority
• FR 1905745 A 20190529
• EP 2020064646 W 20200527

Abstract (en)
[origin: WO2020239804A1] The present invention relates to a turbomachine assembly, comprising: - a casing (10), - a first rotor (12) which is movable in rotation with respect to the casing (10) about a longitudinal axis (X-X), and comprising: * a disk (120), and * a plurality of blades (122) capable of flapping with respect to the disk (120) during a rotation of the first rotor (12) with respect to the casing (10), - a second rotor (140) which is movable in rotation with respect to the casing (10) about the longitudinal axis (X-X), and - a damper (2) which is configured to damp a displacement of the first rotor (12) with respect to the second rotor (140) in a plane orthogonal to the longitudinal axis (X-X), the displacement being caused by a flapping of at least one blade (122) among the plurality of blades (122), the damper (2) comprising: o a first bearing part (21): * bearing against the first rotor (12), and * being configured to apply a first centrifugal force (C1) to the first rotor (12), o a second bearing part (22): * bearing against the second rotor (140), and * being configured to apply a second centrifugal force (C2) on the second rotor (140), and o a linking part (20): * connecting the first bearing part (21) to the second bearing part (22), and being thinned relative to the first bearing part (21) and the second bearing part (22), and o a flyweight (3) which is fixedly mounted on the damper (2).

IPC 8 full level
F01D 5/04 (2006.01); **F01D 5/10** (2006.01); **F01D 5/26** (2006.01); **F01D 25/04** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP US)
F01D 5/10 (2013.01 - EP US); **F01D 5/26** (2013.01 - EP US); **F01D 25/04** (2013.01 - EP); **F04D 29/668** (2013.01 - US); **F04D 29/668** (2013.01 - EP); **F05D 2220/36** (2013.01 - US); **F05D 2230/60** (2013.01 - US); **F05D 2240/30** (2013.01 - US); **F05D 2250/71** (2013.01 - US); **F05D 2260/96** (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 2020239804 A1 20201203; CN 114026311 A 20220208; CN 114026311 B 20240402; EP 3976926 A1 20220406; EP 3976926 B1 20240110; FR 3096734 A1 20201204; FR 3096734 B1 20211231; US 11808170 B2 20231107; US 2022228495 A1 20220721

DOCDB simple family (application)
EP 2020064646 W 20200527; CN 202080047951 A 20200527; EP 20727321 A 20200527; FR 1905745 A 20190529; US 202017614812 A 20200527