

Title (en)
AXIAL-RADIAL TURBOMACHINE

Title (de)
AXIAL-RADIAL-STRÖMUNGSMASCHINE

Title (fr)
TURBOMACHINE AXIALE-RADIALE

Publication
EP 2480791 A1 20120801 (DE)

Application
EP 10732634 A 20100525

Priority
• DE 102009029647 A 20090921
• DE 2010050030 W 20100525

Abstract (en)
[origin: WO2011032549A1] The invention relates to an axial-radial turbomachine (1), comprising: an axial part (10) having at least one axial stage (11), a radial part (20) having at least one radial stage (21), a housing (30) having an interior space, which is divided in an axial direction by a partition (401) extending in a radial direction into a first sub-space (31), in which the axial part is accommodated, and a second sub-space (32), in which the radial part is accommodated, and a shaft (50), which extends in the axial direction through the interior space and the partition and on which rotors (12, 22) of the axial part and of the radial part are accommodated, wherein a radial gap (RS) is formed between the partition and a fluid guiding element (23) of the radial part that is adjacent to the partition and axially fixed on the housing, and wherein a plurality of fixing units (60) distributed in a circumferential direction is arranged in the radial gap, the fixing units axially fixing the partition on the fluid guiding element.

IPC 8 full level
F04D 17/02 (2006.01); **F01D 25/24** (2006.01); **F04D 1/06** (2006.01); **F04D 17/12** (2006.01); **F04D 29/44** (2006.01)

CPC (source: EP US)
F01D 25/243 (2013.01 - EP US); **F04D 17/025** (2013.01 - EP US); **F04D 17/122** (2013.01 - EP US); **F04D 25/16** (2013.01 - EP US)

Citation (search report)
See references of WO 2011032549A1

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 SE SI SK SM TR

DOCDB simple family (publication)
DE 102009029647 A1 20110324; BR 112012006262 A2 20160531; CN 102782330 A 20121114; EP 2480791 A1 20120801; JP 2013505386 A 20130214; US 2013028724 A1 20130131; WO 2011032549 A1 20110324

DOCDB simple family (application)
DE 102009029647 A 20090921; BR 112012006262 A 20100525; CN 201080042217 A 20100525; DE 2010050030 W 20100525; EP 10732634 A 20100525; JP 2012529121 A 20100525; US 201013497331 A 20100525