

Title (en)
TURBOMACHINE

Title (de)
STRÖMUNGSMASCHINE

Title (fr)
TURBOMACHINE

Publication
EP 2659093 B1 20181205 (DE)

Application
EP 11802969 A 20111230

Priority
• DE 202010017157 U 20101230
• DE 102010056557 A 20101230
• EP 2011074330 W 20111230

Abstract (en)
[origin: WO2012089837A1] The invention relates to a turbomachine, in particular a turbine, comprising a housing which has at least one inflow channel (10). A plurality of blades is arranged on a rotor (2) and a working medium flows towards said blades. The working medium flows via the inflow channel (10) into at least one blade channel (20) which is formed between two blades (21) that are accommodated on the rotor (2). After exiting the rotor region, the working medium enters a diffuser (4). At least one guide body (3, 3") is provided for deflecting the working medium which flows out of the blade channel (20) in the direction of the diffuser (4). At least some sections of the guide body in the turbomachine are preferably positioned in an intermediate region (29) of the rotor (2), which intermediate region (29) is surrounded in the radial direction by the rotor blades (21) and lies between a blade-channel outlet (23) and an inlet opening (24) in an outlet channel (40) which is connected downstream of the rotor (2) and is formed by the diffuser (4). The invention also relates to a system for carrying out an organic Rankine cycle process by means of a turbomachine of this type.

IPC 8 full level
F04D 29/54 (2006.01); **F01D 1/08** (2006.01); **F01D 25/30** (2006.01)

CPC (source: EP US)
F01D 1/08 (2013.01 - EP US); **F01D 25/30** (2013.01 - EP US); **F04D 29/54** (2013.01 - US); **F05D 2240/302** (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 2012089837 A1 20120705; EP 2659093 A1 20131106; EP 2659093 B1 20181205; EP 3480425 A1 20190508; EP 3480425 B1 20200909; US 2013129496 A1 20130523; US 9322414 B2 20160426

DOCDB simple family (application)
EP 2011074330 W 20111230; EP 11802969 A 20111230; EP 18209322 A 20111230; US 201213718582 A 20121218