

Title (en)

Diffuser assembly for an exhaust housing of a steam turbine, and steam turbine with the same

Title (de)

Diffusoranordnung für ein Abdampfgehäuse einer Dampfturbine, sowie damit ausgestattete Dampfturbine

Title (fr)

Diffuseur pour un carter d'échappement d'une turbine à vapeur et turbine à vapeur équipée d'un tel diffuseur

Publication

EP 2775096 B1 20181031 (DE)

Application

EP 14151870 A 20140121

Priority

DE 102013204006 A 20130308

Abstract (en)

[origin: EP2775096A2] The arrangement (60) has an annular wall (70) formed with a supplyable annular groove (72) and arranged along flow direction at a location of a moving blade collar (68) for introducing vapor into an annular gap (74) between the annular wall and the blade collar. An inlet end (64) of a diffuser (62) is extended along circumferential direction and axial direction against the flow direction. A flow guide lip (76) divides the vapor into a check steam flow at an external periphery of the blade collar and a boundary layer flow along the annular wall that is projected into the gap.

IPC 8 full level

F01D 5/14 (2006.01); **F01D 11/10** (2006.01); **F01D 25/30** (2006.01)

CPC (source: EP)

F01D 5/143 (2013.01); **F01D 11/10** (2013.01); **F01D 25/30** (2013.01); **F05D 2220/31** (2013.01)

Cited by

EP3034784A1; EP3290650A1; CN107795344A; WO2016096420A1

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)

EP 2775096 A2 20140910; EP 2775096 A3 20180221; EP 2775096 B1 20181031; DE 102013204006 A1 20140911

DOCDB simple family (application)

EP 14151870 A 20140121; DE 102013204006 A 20130308