

Title (en)

AXIAL TURBOMACHINE SEALING SYSTEM

Title (de)

AXIALTURBOMASCHINENDICHTUNGSSYSTEM

Title (fr)

SYSTÈME D'ÉTANCHÉITÉ DE TURBOMACHINE AXIALE

Publication

EP 3822461 A1 20210519 (EN)

Application

EP 19209602 A 20191115

Priority

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Abstract (en)

A sealing system for an axial turbomachine comprises:- a circle of blades (10) with an outer shroud (11) and a first sealing fin (12; 13) projecting away from said outer shroud;- a seal surface (21) opposite to said first sealing fin; and- an, in particular grooved, static fin (30; 60) with at least one fin flange (31A, 31B; 61) for restricting flow between the seal surface (21) and the outer shroud (11), wherein the static fin (30; 60) is stationary with respect to the seal surface (21).

IPC 8 full level

F01D 11/02 (2006.01); **F01D 5/22** (2006.01); **F01D 11/08** (2006.01); **F01D 11/12** (2006.01)

CPC (source: EP)

F01D 5/225 (2013.01); **F01D 11/005** (2013.01); **F01D 11/08** (2013.01); **F01D 11/127** (2013.01); **F05D 2230/54** (2013.01); **F05D 2240/126** (2013.01)

Citation (search report)

- [XA] WO 2019131011 A1 20190704 - MITSUBISHI HEAVY IND AERO ENGINES LTD [JP]
- [XI] EP 3324002 A1 20180523 - MTU AERO ENGINES AG [DE]
- [XA] EP 2302174 A2 20110330 - ROLLS ROYCE DEUTSCHLAND [DE]
- [XA] WO 2018155636 A1 20180830 - MITSUBISHI HEAVY IND LTD [JP]
- [XAI] EP 2647795 A1 20131009 - MTU AERO ENGINES AG [DE]

Cited by

CN114151142A

Designated contracting state (EPC)

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