

Title (en)

ROTOR WITH SEALING ELEMENT AND RING SEAL

Title (de)

ROTOR MIT DICHELEMENT UND DICHRING

Title (fr)

ROTOR COMPRENANT UN ÉLÉMENT D'ÉTANCHÉITÉ ET UNE BAGUE D'ÉTANCHÉITÉ

Publication

EP 3695100 A1 20200819 (DE)

Application

EP 19701772 A 20190107

Priority

- EP 18154881 A 20180202
- US 201862642126 P 20180313
- EP 2019050247 W 20190107

Abstract (en)

[origin: WO2019149474A1] The invention relates to a sealing element (21) and a rotor of a gas turbine having at least one rotor disc (01) and having an annular rotor component (11) arranged adjacently to the rotor disc (01) and having a plurality of sealing elements (21) arranged distributed around the circumference. The sealing elements (21) are fastened to the rotor disc (01) at least in the axial direction. An inner edge portion (23) of each of the sealing elements (21) is adjacent to a sealing portion (13) of the rotor component (11). In order to provide a seal between the sealing element (21) and rotor component (11) whilst at the same time enabling a relative axial displacement, a ring seal (31) is arranged in a receiving space (14) formed by the sealing element (21) and rotor component (11).

IPC 8 full level

F01D 5/02 (2006.01); **F01D 5/06** (2006.01); **F01D 5/30** (2006.01); **F01D 5/32** (2006.01); **F01D 11/00** (2006.01)

CPC (source: EP KR US)

F01D 5/025 (2013.01 - EP KR US); **F01D 5/066** (2013.01 - EP KR); **F01D 5/3007** (2013.01 - EP); **F01D 5/3015** (2013.01 - EP KR US); **F01D 5/326** (2013.01 - EP KR); **F01D 11/00** (2013.01 - EP KR); **F01D 11/006** (2013.01 - US); **F01D 5/3007** (2013.01 - US); **F05D 2220/32** (2013.01 - US); **F05D 2230/60** (2013.01 - EP KR); **F05D 2240/24** (2013.01 - US); **F05D 2240/55** (2013.01 - EP US); **F05D 2240/58** (2013.01 - EP KR); **F05D 2260/30** (2013.01 - US)

Citation (search report)

See references of WO 2019149474A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3521561 A1 20190807; CN 111670292 A 20200915; CN 111670292 B 20221108; EP 3695100 A1 20200819; EP 3695100 B1 20211006; JP 2021512250 A 20210513; JP 7026809 B2 20220228; KR 102455245 B1 20221017; KR 20200111790 A 20200929; US 11319823 B2 20220503; US 2020392857 A1 20201217; WO 2019149474 A1 20190808

DOCDB simple family (application)

EP 18154881 A 20180202; CN 201980011393 A 20190107; EP 19701772 A 20190107; EP 2019050247 W 20190107; JP 2020541886 A 20190107; KR 20207024898 A 20190107; US 201916957223 A 20190107