

Title (en)
SEALING MODULE FOR TURBOMACHINE

Title (de)
ABDICHTUNGSMODUL FÜR TURBOMASCHINE

Title (fr)
MODULE D'ÉTANCHÉITÉ DE TURBOMACHINE

Publication
EP 3591178 B1 20220810 (FR)

Application
EP 19183350 A 20190628

Priority
FR 1856139 A 20180703

Abstract (en)
[origin: US2020011194A1] Turbine engine turbine sealing module extending about an axis and including a distributor fixed to a casing, and at least one blade connected to an outer platform. The turbine module further includes an impeller mounted rotating inside the casing and surrounded by a sealing ring fastened to this casing. The sealing ring includes an annular row of ring sectors arranged such that the circumferential end edges of two adjacent sectors are facing one another. Each sector includes a body configured to engage with at least one seal lip carried by the impeller and a hook which extends circumferentially which is configured to engage with a fastening rail of the casing. Each ring sector further includes a deflector which extends radially inwards and upstream with respect to the axis, such that the radially inward end thereof extends around a downstream end of the outer platform of the distributor.

IPC 8 full level
F01D 25/24 (2006.01)

CPC (source: CN EP US)
F01D 11/005 (2013.01 - CN US); **F01D 11/122** (2013.01 - US); **F01D 25/246** (2013.01 - CN EP US); **F01D 11/005** (2013.01 - EP); **F05D 2220/323** (2013.01 - US); **F05D 2240/11** (2013.01 - CN EP US); **F05D 2240/55** (2013.01 - EP US)

Citation (examination)
US 2014044528 A1 20140213 - CLOUSE BRIAN ELLIS [US]

Cited by
FR3114841A1; FR3114840A1; FR3122692A1

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 3591178 A1 20200108; **EP 3591178 B1 20220810**; CN 110685753 A 20200114; CN 110685753 B 20230428; FR 3083563 A1 20200110; FR 3083563 B1 20200724; US 11035244 B2 20210615; US 2020011194 A1 20200109

DOCDB simple family (application)
EP 19183350 A 20190628; CN 201910593253 A 20190703; FR 1856139 A 20180703; US 201916459406 A 20190701