

Title (en)
COMPRESSOR ROTOR OF A FLUID FLOW MACHINE

Title (de)
VERDICHTERROTOR EINER STRÖMUNGSMASCHINE

Title (fr)
ROTOR DE COMPRESSEUR D'UNE TURBOMACHINE

Publication
EP 3315720 A3 20180606 (DE)

Application
EP 17197040 A 20171018

Priority
DE 102016120346 A 20161025

Abstract (en)
[origin: US2018112674A1] A compressor rotor of a turbomachine includes a rotor disk; a rotor hub forming or connected to a radially outer edge of the rotor disk; and a plurality of rotor blades on the rotor hub extending radially outwards. The rotor hub includes an axially frontal leading edge, an axially rear trailing edge, a top side, a frontal bottom side extending on a bottom side of the rotor hub from the leading edge in a direction of the rotor disk and transitioning into same, and a rear bottom side extending on the bottom side from the trailing edge in the direction of the rotor disk and transitioning into same. The frontal bottom side and/or the rear bottom side of the hub is contoured in a circumferential direction of the rotor hub to form respectively one indentation in an area below a rotor blade.

IPC 8 full level
F01D 5/14 (2006.01); **F01D 5/02** (2006.01); **F01D 5/30** (2006.01); **F01D 5/34** (2006.01)

CPC (source: EP US)
F01D 5/02 (2013.01 - EP US); **F01D 5/14** (2013.01 - EP US); **F01D 5/147** (2013.01 - EP US); **F01D 5/3061** (2013.01 - EP US); **F01D 5/34** (2013.01 - EP US); **F04D 29/324** (2013.01 - US); **F04D 19/00** (2013.01 - US); **F04D 29/284** (2013.01 - US); **F05D 2250/14** (2013.01 - EP US)

Citation (search report)

- [XAYI] EP 3002414 A2 20160406 - ROLLS ROYCE CORP [US]
- [XAYI] JP 2009197649 A 20090903 - MITSUBISHI HEAVY IND LTD
- [XAYI] GB 2255138 A 19921028 - SNECMA [FR]
- [Y] DE 102008052247 A1 20100422 - MTU AERO ENGINES GMBH [DE]
- [Y] EP 1507064 A2 20050216 - GEN ELECTRIC [US]
- [A] GB 2468722 A 20100922 - LEIGH WARREN BARRATT [GB]

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 3315720 A2 20180502; EP 3315720 A3 20180606; DE 102016120346 A1 20180426; US 10995768 B2 20210504; US 2018112674 A1 20180426

DOCDB simple family (application)
EP 17197040 A 20171018; DE 102016120346 A 20161025; US 201715789078 A 20171020