

Title (en)
TURBOMACHINE PART WITH A NON-AXISYMMETRIC SURFACE

Title (de)
TURBOMASCHINENTEIL MIT NICHT-AXIALSYMMETRISCHER OBERFLÄCHE

Title (fr)
PIÈCE DE TURBOMACHINE À SURFACE NON-AXISYMÉTRIQUE

Publication
EP 3055506 B1 20190417 (FR)

Application
EP 14824048 A 20141010

Priority
• FR 1359895 A 20131011
• FR 2014052586 W 20141010

Abstract (en)
[origin: WO2015052455A1] The present invention concerns a turbomachine part (1) comprising at least first and second blades (3, 31, 3E), and a platform (2) from which the blades (3, 31, 3E) extend, characterised in that the platform (2) has a non-axisymmetric surface (S) limited by first and second end planes (PS, PR), and defined by at least three construction curves (PC-A, PC-C, PC-F) of class C1 each representing the value of a radius of said surface (S) on the basis of a position between the lower surface of the first blade (31) and the upper surface of the second blade (3E) according to a plane substantially parallel to the end planes (PS, PR), including: - a first curve (PC-C) that increases in the vicinity of the second blade (3E); - a second curve (PC-F) disposed between the first curve (PC-C) and a trailing edge (BF) of the first and second blades (3, 31, 3E), and that decreases in the vicinity of the second blade (3E); - a third curve (PC-A) disposed between the first curve (PC-C) and a leading edge (BA) of the first and second blades (3, 31, 3E), and having a minimum at the second blade (31).

IPC 8 full level
F01D 5/14 (2006.01); **F04D 29/32** (2006.01); **F04D 29/68** (2006.01)

CPC (source: EP RU US)
F01D 5/143 (2013.01 - EP RU US); **F04D 29/32** (2013.01 - RU); **F04D 29/321** (2013.01 - EP US); **F04D 29/322** (2013.01 - US); **F04D 29/324** (2013.01 - US); **F04D 29/329** (2013.01 - US); **F04D 29/522** (2013.01 - US); **F04D 29/542** (2013.01 - EP US); **F04D 29/544** (2013.01 - US); **F04D 29/681** (2013.01 - EP US); **F05B 2240/80** (2013.01 - EP US); **F05B 2250/71** (2013.01 - EP US); **F05D 2220/30** (2013.01 - US); **F05D 2230/50** (2013.01 - US); **F05D 2240/80** (2013.01 - EP US); **F05D 2250/71** (2013.01 - EP US)

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)
WO 2015052455 A1 20150416; BR 112016007568 A2 20170801; BR 112016007568 B1 20211228; CA 2926003 A1 20150416; CA 2926003 C 20220322; CN 105637181 A 20160601; CN 105637181 B 20170707; EP 3055506 A1 20160817; EP 3055506 B1 20190417; FR 3011888 A1 20150417; FR 3011888 B1 20180420; RU 2016118151 A 20171116; RU 2016118151 A3 20180719; RU 2675980 C2 20181225; US 10352330 B2 20190716; US 2016245299 A1 20160825

DOCDB simple family (application)
FR 2014052586 W 20141010; BR 112016007568 A 20141010; CA 2926003 A 20141010; CN 201480056058 A 20141010; EP 14824048 A 20141010; FR 1359895 A 20131011; RU 2016118151 A 20141010; US 201415028059 A 20141010