Title (en)

METHOD FOR COATING A TURBOMACHINE GUIDE VANE AND ASSOCIATED GUIDE VANE

Title (de)

VERFAHREN ZUM BESCHICHTEN EINER LEITSCHAUFEL EINER TURBOMASCHINE UND ZUGEHÖRIGE LEITSCHAUFEL

Title (fr)

PROCÉDÉ DE REVÊTEMENT D'UNE AUBE DE REDRESSEUR DE TURBOMACHINE, AUBE DE REDRESSEUR ASSOCIÉE

Publication

EP 3987155 A1 20220427 (FR)

Application

EP 20785773 A 20200618

Priority

- FR 1906647 A 20190620
- FR 2020051055 W 20200618

Abstract (en)

[origin: WO2020254764A1] One aspect of the invention relates to a method (200) for coating a vane (100) of a guide vanes assembly (30) of a turbomachine (1), the vane comprising a root (103) and a tip (104), an extrados face (105) and an intrados face (106) which are connected to one another by a leading edge (101) and a trailing edge (102), the coating method (200) comprising the following steps: - completely covering (201) one of the faces (105, 106) of the vane (100) with a polymer coating (107) of thickness (e1) and provided with grooves (108), - removing (203) the grooves (108) from part of the polymer coating (107) so that the polymer coating (107) comprises a grooved zone (109) and an ungrooved zone (110), - coating (205) the grooved zone (110) with a coat of paint (111) of thickness (e3) so that the thickness of the coat of paint (111) superposed with the grooved zone (110) is substantially equal to the thickness (e1) of the grooved zone (109).

IPC 8 full level

F01D 9/04 (2006.01); **F01D 5/28** (2006.01)

CPC (source: CN EP US)

F01D 5/282 (2013.01 - CN EP US); **F01D 5/288** (2013.01 - US); **F01D 9/041** (2013.01 - CN EP US); F05D 2230/31 (2013.01 - US); F05D 2230/90 (2013.01 - US); F05D 2240/121 (2013.01 - US); F05D 2240/122 (2013.01 - US); F05D 2250/11 (2013.01 - CN EP)

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)

FR 3097452 A1 20201225; **FR 3097452 B1 20210521**; CN 114008298 A 20220201; CN 114008298 B 20230630; EP 3987155 A1 20220427; EP 3987155 B1 20230816; US 11898466 B2 20240213; US 2022235666 A1 20220728; WO 2020254764 A1 20201224

DOCDB simple family (application)

FR 1906647 A 20190620; CN 202080044957 A 20200618; EP 20785773 A 20200618; FR 2020051055 W 20200618; US 202017619505 A 20200618