

Title (en)

A CURVED AEROSPACE PROFILE ARTICLE AND METHOD OF MANUFACTURE OF THE ARTICLE

Title (de)

GEKRÜMMTER GEGENSTAND MIT AERODYNAMISCHEM PROFIL UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

ARTICLE PROFILÉ AÉROSPATIAL INCURVÉ ET PROCÉDÉ DE FABRICATION DE L'ARTICLE

Publication

EP 4107058 A1 20221228 (EN)

Application

EP 20919856 A 20200217

Priority

SE 2020050183 W 20200217

Abstract (en)

[origin: WO2021167504A1] The present invention regards a profile manufacturing tool assembly (1003) configured for manufacture of a curved aerospace profile article (101) and a method of manufacture of a curved aerospace profile article (101) made of fibre reinforced matrix material. A profile manufacturing tool assembly (1003) comprises a first tool device (1005) configured to form a curved openbeam profile workpiece (19); a second tool device (1022) configured to divide in longitudinal direction the curved openbeam profile workpiece (19) in at least a first and second profile (33, 35); a third tool device (1049) configured to join the first and second profile (33, 35) to each other for providing said curved aerospace profile article (101); a fourth tool device (1061) configured to cure the curved openbeam profile workpiece (19) or configured to cure the first and second profile (33, 35) prior said joining or after said joining and removing after the curing step the curved aerospace profile article (101) from the fourth tool device (1061).

IPC 8 full level

B64C 1/06 (2006.01); **B29C 65/70** (2006.01); **B29C 70/34** (2006.01); **B29C 70/38** (2006.01); **B29D 99/00** (2010.01); **B64C 3/18** (2006.01)

CPC (source: EP)

B29C 70/30 (2013.01); **B29C 70/38** (2013.01); **B29C 70/462** (2013.01); **B29C 70/541** (2013.01); **B29C 70/545** (2013.01); **B29D 99/0003** (2013.01); **B29D 99/0014** (2013.01); **B64F 5/10** (2016.12); **B29C 70/48** (2013.01); **B29C 2793/0063** (2013.01); **B29C 2793/0072** (2013.01); **B29C 2793/009** (2013.01); **Y02T 50/40** (2013.01)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2021167504 A1 20210826; EP 4107058 A1 20221228; EP 4107058 A4 20231122

DOCDB simple family (application)

SE 2020050183 W 20200217; EP 20919856 A 20200217