

Title (en)

IMPROVED FOUNDRY CORE FOR MANUFACTURING A HOLLOW METAL AERONAUTICAL PART

Title (de)

VERBESSERTER GIESSKERN ZUR HERSTELLUNG EINES HOHLEN AERONAUTISCHEN METALLTEILS

Title (fr)

NOYAU DE FONDERIE AMÉLIORÉ POUR LA FABRICATION DE PIÈCE AÉRONAUTIQUE MÉTALLIQUE CREUSE

Publication

EP 4370261 A1 20240522 (FR)

Application

EP 22754470 A 20220712

Priority

- FR 2107726 A 20210716
- FR 2022051406 W 20220712

Abstract (en)

[origin: WO2023285766A1] Disclosed is a foundry core (1) for manufacturing a hollow metal aeronautical part, in particular a high-pressure turbine part, by lost-wax casting, comprising a composite material containing, on the one hand, a first phase having formula $Mn+1AlC_n$, where $n = 1$ to 3 and M is a transition metal selected from the group consisting of titanium and/or niobium and/or molybdenum, and, on the other hand, a second phase having formula Al_4C_3 .

IPC 8 full level

B22C 1/00 (2006.01); **B22C 9/04** (2006.01); **B22C 9/10** (2006.01); **B22C 9/18** (2006.01); **B22D 29/00** (2006.01)

CPC (source: EP)

B22C 1/00 (2013.01); **B22C 9/04** (2013.01); **B22C 9/10** (2013.01); **B22C 9/18** (2013.01); **B22D 29/002** (2013.01); **B22D 29/003** (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)

FR 3125237 A1 20230120; **FR 3125237 B1 20230714**; CN 117642239 A 20240301; EP 4370261 A1 20240522; WO 2023285766 A1 20230119

DOCDB simple family (application)

FR 2107726 A 20210716; CN 202280049855 A 20220712; EP 22754470 A 20220712; FR 2022051406 W 20220712