

Title (en)

METHOD FOR PRODUCING A COMPONENT BY MEANS OF ADDITIVE MANUFACTURING

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES BAUTEILS IM WEGE DER ADDITIVEN FERTIGUNG

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN COMPOSANT AU MOYEN D'UNE FABRICATION ADDITIVE

Publication

EP 4221956 A1 20230809 (DE)

Application

EP 21778065 A 20210916

Priority

- DE 102020125711 A 20201001
- EP 2021075511 W 20210916

Abstract (en)

[origin: WO2022069246A1] The invention relates to a method for producing a component (1) by means of additive manufacturing, wherein a polymer (4), preferably a thermoplastic, is used as the material for the component (1), wherein the component (1) is produced by layer-by-layer application of the polymer (4) in the molten state, and wherein, optionally, the polymer melt (4) is compacted by means of a compaction device (8) immediately after its application from a nozzle (3). According to the invention, the polymer melt (4) immediately after its application is additionally cooled by means of a cooling device (K) to a temperature of a maximum of 20 °C, preferably at most 10 °C above the melting interval (S) of the polymer (4).

IPC 8 full level

B29C 64/106 (2017.01); **B29C 64/188** (2017.01); **B29C 64/20** (2017.01); **B33Y 10/00** (2015.01); **B33Y 30/00** (2015.01)

CPC (source: EP)

B29C 64/106 (2017.07); **B29C 64/188** (2017.07); **B29C 64/20** (2017.07); **B33Y 10/00** (2014.12); **B33Y 30/00** (2014.12)

Citation (search report)

See references of WO 2022069246A1

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)

DE 102020125711 A1 20220407; EP 4221956 A1 20230809; WO 2022069246 A1 20220407

DOCDB simple family (application)

DE 102020125711 A 20201001; EP 2021075511 W 20210916; EP 21778065 A 20210916