

Title (en)
PLANNING DEVICE, MANUFACTURING DEVICE, METHOD AND COMPUTER PROGRAM PRODUCT FOR THE ADDITIVE MANUFACTURING OF COMPONENTS FROM A POWDER MATERIAL

Title (de)
PLANUNGSEINRICHTUNG, FERTIGUNGSEINRICHTUNG, VERFAHREN UND COMPUTERPROGRAMMPRODUKT ZUM ADDITIVEN FERTIGEN VON BAUTEILEN AUS EINEM PULVERMATERIAL

Title (fr)
DISPOSITIF DE PLANIFICATION, DISPOSITIF DE FABRICATION, PROCÉDÉ ET PRODUIT-PROGRAMME INFORMATIQUE POUR LA FABRICATION ADDITIVE DE COMPOSANTS À PARTIR D'UN MATÉRIAU EN POUDRE

Publication
EP 4200097 A1 20230628 (DE)

Application
EP 21766430 A 20210818

Priority
• DE 102020210681 A 20200821
• EP 2021072968 W 20210818

Abstract (en)
[origin: WO2022038200A1] The invention relates to a planning device (15) for planning locally selective irradiation of a working area (11) with an energy beam (7), in order by means of the energy beam (7) to produce a component (3) from a powder material arranged in the working area (11), wherein the planning device (15) is designed to obtain a component contour (23) of a component layer (17) to be generated on a powder-material layer in the working area (11), to establish an origin (25) on the component contour (23), and, from the origin (25), to overlay the component contour (23) with an arrangement (26) of irradiating areas (27) to be irradiated with the energy beam (7), wherein each irradiating area (27) has at least one dimension that is predetermined independently of the component contour (23) and is the same for all of the irradiating areas (27).

IPC 8 full level
B22F 10/28 (2021.01); **B22F 10/366** (2021.01); **B29C 64/153** (2017.01); **B29C 64/393** (2017.01); **B33Y 10/00** (2015.01); **B33Y 50/02** (2015.01)

CPC (source: EP US)
B22F 10/28 (2021.01 - EP); **B22F 10/36** (2021.01 - US); **B22F 10/366** (2021.01 - EP); **B22F 12/41** (2021.01 - US); **B22F 12/49** (2021.01 - US); **B22F 12/90** (2021.01 - US); **B29C 64/153** (2017.07 - EP); **B29C 64/393** (2017.07 - EP); **B33Y 10/00** (2014.12 - EP); **B33Y 30/00** (2014.12 - EP); **B33Y 50/02** (2014.12 - EP); **B22F 12/49** (2021.01 - EP); **B33Y 10/00** (2014.12 - US); **B33Y 30/00** (2014.12 - US); **Y02P 10/25** (2015.11 - EP)

Citation (search report)
See references of WO 2022038200A1

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 2022038200 A1 20220224; DE 102020210681 A1 20220310; EP 4200097 A1 20230628; US 2023191497 A1 20230622

DOCDB simple family (application)
EP 2021072968 W 20210818; DE 102020210681 A 20200821; EP 21766430 A 20210818; US 202318170568 A 20230217