

Title (en)
HATCH REVERSAL WITH KEYHOLE TRANSFER

Title (de)
HATCHUMKEHR MIT KEYHOLE-ÜBERGABE

Title (fr)
INVERSION DE HACHURAGE À TRANSFERT DE CAPILLAIRE (KEYHOLE)

Publication
EP 4072754 A1 20221019 (DE)

Application
EP 20811561 A 20201119

Priority
• DE 102019219276 A 20191210
• EP 2020082781 W 20201119

Abstract (en)
[origin: WO2021115756A1] The invention relates to a method for providing control data for an additive manufacturing device (1) for manufacturing a three-dimensional object (2), said method comprising: a first step (S1) in which computer-based model data of at least one portion of the object to be manufactured is accessed; a second step (S2) in which at least one data model of a construction material layer region to be selectively solidified for manufacturing the at least one object portion is produced, the data model specifying the scanning of locations of the region to be selectively solidified, using at least one beam along a first trajectory (74a, 84) and a second trajectory (75, 85) substantially parallel thereto, the motion vectors of the beams in the construction plane having mutually opposite directional components during the scan along the two trajectories, and it being specified that the distance between a starting point (75A, 85A) of the second trajectory (75, 85) and an end point (74aE, 84E) of the previously scanned first trajectory (74a, 84) is less than half a beam width (B) of the beam at the end point (74aE, 84E) of the first trajectory (74a, 84); and a third step (S3) in which control data corresponding to the at least one data model produced in the second step (S2) is provided for the generation of a control data set for the additive manufacturing device.

IPC 8 full level
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Citation (search report)
See references of WO 2021115756A1

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