

Title (en)

SYSTEM FOR CONTROLLING THE TEMPERATURE OF THE CONSTRUCTION SPACE IN POWDER BED FUSION-BASED ADDITIVE MANUFACTURING INSTALLATIONS

Title (de)

SYSTEM ZUR TEMPERIERUNG DES BAURAUMS PULVERBETTBASIERTER ADDITIVER FERTIGUNGSANLAGEN

Title (fr)

SYSTÈME DE MISE EN TEMPÉRATURE DE L'ESPACE D'INSTALLATIONS DE FABRICATION ADDITIVE À BASE DE LIT DE POUDRE

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Application

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Abstract (en)

[origin: WO2021180766A1] The present invention relates to a sintering device for the additive manufacturing of metallic workpieces using a powder bed, comprising at least the components: a) irradiation unit; b) metal powder feed; c) vertically movable build platform, the build platform forming the base of the powder bed; d) process chamber walls delimiting the powder bed to the sides, the process chamber walls being formed from metal and being individually and locally selectively heatable and coolable as a function of the height from the base of the build platform, wherein a plurality of temperature sensors are arranged in or on the process chamber walls vertically spaced apart from one another. The present invention further relates to the use of a device according to the invention for the additive manufacture of metallic workpieces.

IPC 8 full level

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