

Title (en)

ELECTRON BEAM SYSTEM, AND METHOD FOR THE ADDITIVE MANUFACTURE OF A WORKPIECE

Title (de)

ELEKTRONENSTRAHLANLAGE UND VERFAHREN ZUR ADDITIVEN HERSTELLUNG EINES WERKSTÜCKS

Title (fr)

SYSTÈME À FAISCEAU D'ÉLECTRONS ET PROCÉDÉ DE FABRICATION ADDITIVE D'UNE PIÈCE

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Application

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Priority

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Abstract (en)

[origin: WO2021165515A1] The invention relates to an electron beam system (10) for the additive manufacture of a workpiece (43), comprising a process chamber (12) which can be evacuated and comprising an electron beam generator (22) which is designed to direct an electron beam (26) onto laterally different locations of a powder bed (42) made of a pulverulent material (46) to be processed in the process chamber (12). In order to improve the throughput of the electron beam system (10), the system has at least one prechamber (14) which can be evacuated and which is constantly connected to the process chamber (12) during the operation of the electron beam system (10) in a vacuum-tight manner via a sluice door (16). Furthermore, at least one movable receiving device (32) for receiving the powder bed (42) and a transport device (30) are provided, said transport device allowing the at least one receiving device (32) to be transported from the prechamber (14) into the process chamber (12).

IPC 8 full level

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See references of WO 2021165515A1

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