

Title (en)

APPARATUS FOR CONVEYING AND METERING POWDER, APPARATUS FOR PRODUCING A LAYERED STRUCTURE ON A SURFACE REGION OF A COMPONENT, SHEET-LIKE HEATING ELEMENT AND METHOD FOR PRODUCING A SHEET-LIKE HEATING ELEMENT

Title (de)

VORRICHTUNG ZUR FÖRDERUNG UND DOSIERUNG VON PULVER, VORRICHTUNG ZUR HERSTELLUNG EINER SCHICHTSTRUKTUR AUF EINEM OBERFLÄCHENBEREICH EINES BAUELEMENTS, FLÄCHIGES HEIZELEMENT UND VERFAHREN ZUR HERSTELLUNG EINES FLÄCHIGEN HEIZELEMENTS

Title (fr)

DISPOSITIF DE TRANSPORT ET DE DOSAGE DE POUDRE, DISPOSITIF DE FABRICATION D'UNE STRUCTURE EN COUCHES SUR UNE SURFACE D'UN ÉLÉMENT DE CONSTRUCTION, ÉLÉMENT CHAUFFANT PLAT ET PROCÉDÉ DE FABRICATION D'UN ÉLÉMENT CHAUFFANT PLAT

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Application

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Abstract (en)

[origin: WO2019180190A1] An apparatus (100) for conveying and metering powder (112) comprises a powder storage container (110) for storing and providing powder (112), a vibratory conveyor (120) having a conveying device (122) with an adjustable conveying rate for delivering the powder (112) at the adjustable conveying rate to a powder outlet (124), a line arrangement (130) for transporting the powder (112) delivered by the vibratory conveyor (120) in a conveying gas (115) as a powder-gas mixture (116) and for feeding the powder-gas mixture (116) to a powder processing device (200), wherein a coupling-out device (132) is provided in the line arrangement (130) in order to remove a defined proportion PM2 of the powder (112) from the powder-gas mixture (116), a powder quantity measuring arrangement (140) for recording the quantity of powder PM2 coupled out per unit of time and for providing a powder quantity information signal S1, wherein the quantity of powder PM2 removed per unit of time is in a prescribed ratio to the conveyed quantity of powder PM1 of the vibratory conveyor (120) within a tolerance range, and a control device (150), which is designed to adjust the adjustable conveying rate of the vibratory conveyor (120) to a prescribed setpoint value on the basis of the powder quantity information signal S1 provided by the powder quantity measuring arrangement (140).

IPC 8 full level

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