

Title (en)
DEVICE AND METHOD FOR PRODUCING METALLIC COMPONENTS

Title (de)
VORRICHTUNG UND VERFAHREN ZUM FERTIGEN VON METALLISCHEN BAUTEILEN

Title (fr)
DISPOSITIF ET PROCÉDÉ DE FABRICATION DE PIÈCES MÉTALLIQUES

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Application
EP 17715952 A 20170407

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Abstract (en)
[origin: WO2017174784A1] The present invention relates to a device and a method for the adaptive manufacturing of metallic components comprising a substrate (3) and an overlay element (1), which is to be applied to the substrate (3) and to be connected to the substrate (3) in a material-bonded manner, comprising a feeding device (7), which is designed to guide the overlay element (1) onto a surface that is to be coated of the substrate (3), and at least one laser light source (4), with which at least the overlay element (1) can be preheated on the surface thereof by an emitted laser beam (6) directly before or at a point of impingement or an area of impingement between the overlay element (1) and the substrate (3) to a temperature suitable for the material-bonded joining. Also provided is a rolling device (2), which is equipped with at least one roller and is designed to press the heated overlay element (1) onto the substrate (3) and thereby connect it to the substrate (3) in a material-bonded manner. By a transverse movement of the substrate (3) in relation to the feeding device (7) or a movement of the feeding device (7), the overlay element (1) is applied to the substrate (3) in traces or in layers, and so individual traces of the overlay element material are arranged next to one another on the surface of the substrate (3) or layers of the overlay element material are arranged over one another.

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