

Title (en)  
METHOD OF CREATING METAL COMPONENTS USING THE DEPOSITION OF MATERIAL AND APPARATUS TO IMPLEMENT THIS METHOD

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON METALLKOMPONENTEN DURCH ABSCHIEDUNG VON MATERIAL UND VORRICHTUNG ZUR DURCHFÜHRUNG DIESES VERFAHRENS

Title (fr)  
PROCÉDÉ DE CRÉATION DE COMPOSANTS MÉTALLIQUES PAR DÉPÔT DU MATÉRIAU ET APPAREIL POUR LA MISE EN UVRE DE CE PROCÉDÉ

Publication  
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Application  
**EP 16875026 A 20161215**

Priority  
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Abstract (en)  
[origin: WO2017103849A1] The invention concerns a method of creating metal components using the deposition of material, where a weld deposit with the size of 2 to 200 mm<sup>3</sup>/s is created, and then cooled to a temperature of 20 to 90 °C and cleaned; after that the weld deposit is machined to the shape of the base with 1 to 3 defined contact surfaces for the next deposit and, after additional cleaning and drying, another weld deposit is created with the size of 2 to 200 mm<sup>3</sup>/s. It also concerns an apparatus for implementing this method, where at least three motion axes (10), (11) and (14), a head stock and a spindle (OP11 and OP12) with a tool (18) are integrated in one closed, ventilated area in the apparatus, and other technology units are connected to the body of the head stock, selected from the group of welding head (OP01), continuous cooling unit (OP02, OP03, OP04, OP05, OP06), weld deposit cleaning unit (OP09 and OP10), cleaning and drying unit (OP13 and OP14) and temperature control unit (OP89 and OP99), and the table (1) is equipped with internal cooling OP08.

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