

Title (en)  
DEVICE AND METHOD THE PRODUCTION AND SECONDARY MACHINING OF LAYERS APPLIED BY LASER CLADDING

Title (de)  
VORRICHTUNG UND VERFAHREN ZUM HERSTELLUNG UND NACHBEARBEITEN VON SCHICHTEN AUFGETRAGEN DURCH LASERAUFTRAGSCHWEISSEN

Title (fr)  
DISPOSITIF ET PROCÉDÉ DE FABRICATION ET D'USINAGE SECONDAIRE DE COUCHES APPLIQUÉES PAR REVÊTEMENT AU LASER

Publication  
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Application  
**EP 20780558 A 20200909**

Priority  
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Abstract (en)  
[origin: CA3171144A1] The invention relates to a device (1) for laser cladding, a method (100) for operating such a device, and a component (4') produced using such a method and/or such a device comprising a laser cladding unit (2) having at least one laser cladding head (3) disposed thereon, one or more material sources (5) for supplying the laser cladding head with a material (M) to be applied, and a laser beam source (6) for supplying the laser cladding head with laser light (L) for carrying out the laser cladding, wherein the device is designed to apply material layers (42, 43, 44) from an adjacent application weld signature (MS) to a surface (41) of a component (4) in the form of at least a first layer (42) made from a material (M) that comprises structures (42s) projecting from the surface of the first layer and having a first hardness (H1), and a second layer (43) applied thereto made from a material (M) having a second hardness (H2) that is less than the first hardness, and the application process is controlled so that the second layer at least partly covers the structures projecting from the first layer.

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