

Title (en)
METHOD FOR PRODUCING A VANE FOR A ROTARY VANE PUMP, VANE FOR A ROTARY VANE PUMP AND ROTARY VANE PUMP

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES FLÜGELS FÜR EINE FLÜGELZELLENPUMPE, FLÜGEL FÜR EINE FLÜGELZELLENPUMPE SOWIE FLÜGELZELLENPUMPE

Title (fr)
PROCÉDÉ DE FABRICATION D'UNE PALETTE DESTINÉE À UNE POMPE À PALETTES, PALETTE DESTINÉE À UNE POMPE À PALETTES, AINSI QUE POMPE À PALETTES.

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Application
EP 14705702 A 20140124

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Abstract (en)
[origin: WO2014114461A1] The invention relates to a method for producing a net-shape vane for a rotary vane pump, which vane is preferably open-pored and consists of a metal sinter material. The vane has at least one first front face and one second front face which is preferably oriented parallel to the first front face, and a first lateral surface and second lateral surface that is oriented parallel to the first lateral surface. Furthermore, the vane comprises a first contour surface and a second contour surface. The method for producing the vane comprises at least the following steps: pressing (20) a powder mixture to a green body by means of a powder press, sintering (21) the green body inside a sintering furnace to a sintering element having an austenitic structure, quenching the sintering element inside the sintering furnace to a temperature below the martensitic start temperature for hardening (22), tempering (23) the sintering element preferably inside the sintering furnace, removing (24) the sintering element as net-shape vane, preferably as removal from the sintering furnace. After removing the sintering element, deburring (25) can optionally be made. The invention further relates to a vane and a rotary vane pump.

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Citation (search report)
See references of WO 2014114461A1

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