Title (en)

METHOD FOR MANUFACTURING COMPONENTS WITH A NICKEL BASE ALLOY AS WELL AS COMPONENTS MANUFACTURED THEREWITH

Title (de)

VERFAHREN ZUR HERSTELLUNG VON KOMPONENTEN MIT EINER LEGIERUNG AUF NICKELBASIS SOWIE DAMIT HERGESTELLTE KOMPONENTEN

Title (fr)

PROCEDE DE FABRICATION DE COMPOSANTS EN ALLIAGE A BASE DE NICKEL ET COMPOSANTS AINSI FABRIQUES

Publication

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Application

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Abstract (en)

[origin: CA2533118A1] The invention relates to a method for manufacturing components with a nickel base alloy as well as to components manufactured therewith. The respective components, in particular, are to have improved mechanical properties in comparison with the conventional solutions, and are to be producible in the most differently shaped form. During the production, proceeding takes place then such that a substrate core made of nickel or a nickel base alloy, in which nickel is included with a content of at least 20 wt%, will be coated o n the surface with a binding agent as well as a metal powder in which nickel i s included with a content of at least 20 wt% in addition to further alloy forming elements. Subsequently, a stepped thermal treatment is carried out i n which the binding agent is expelled at first, and subsequent to this sinteri ng of the mezai powder is performed which results in alloying up a nickel substrate core and/or which develops a solid surface coating made of nickel base alloy.

IPC 8 full level

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