Title (en)

COMPONENTS BASED ON INTERMETALLIC PHASES OF THE SYSTEM TITANIUM-ALUMINIUM AND PROCESS FOR PRODUCING SUCH COMPONENTS.

Title (de)

KOMPONENTE AUF DER BASIS INTERMETALLISCHER PHASEN DES SYSTEMS TITAN-ALUMINIUM UND VERFAHREN ZUR HERSTELLUNG SOLCHER KOMPONENTE.

Title (fr)

CONSTITUANTS A BASE DE PHASES INTERMETALLIQUES DU SYSTEME TITANE-ALUMINIUM ET LEUR PROCEDE DE FABRICATION.

Publication

EP 0640150 A1 19950301 (DE)

Application

EP 93909788 A 19930511

Priority

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- DE 4215017 A 19920512

Abstract (en)

[origin: WO9323582A1] A component based on intermetallic phases of the system titanium-aluminium has an aluminium content between 42 at % and 53 at %. A process is also disclosed for producing such mechanically highly stressable, oxidation and corrosion-resistant components. The object of the invention is to obtain such a component in which the good mechanical properties of the titanium-aluminium system remain well defined and the requirement of an oxidation and corrosion-resistance at service temperatures of up to 900 C is satisfied. This problem is solved by a component having at its surface a lamellar, eutectoid Ti3?Al/TiAl structure.

IPC 1-7

C22C 14/00; C22C 1/00

IPC 8 full level

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CPC (source: EP US)

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