

Title (en)

PROCESS FOR PRODUCING WEAR-RESISTANT LAYERS ON THE SURFACES OF COMPONENTS MADE OF TITANIUM OR ALLOYS BASED ON TITANIUM

Publication

EP 0128383 B1 19881109 (DE)

Application

EP 84105503 A 19840515

Priority

DE 3321231 A 19830611

Abstract (en)

[origin: US4588480A] A method of producing a wear protection coating on a surface of a structural part of titanium or a titanium base alloy comprising applying a metallic nickel layer which adheres to the surface of the structural part and thereafter subjecting the thus coated structural part to a heat treatment to form diffusion layers of Ti₂Ni and TiNi₃ between the titanium and the nickel. Thereafter, the layer of nickel alone or with the layer of TiNi₃ is removed to leave the titanium part covered by a protection layer of the remaining diffusion layer.

IPC 1-7

C23C 10/02; **C23C 10/28**; **C23C 10/60**

IPC 8 full level

C23C 10/28 (2006.01); **C23C 10/60** (2006.01)

CPC (source: EP US)

C23C 10/28 (2013.01 - EP US); **C23C 10/60** (2013.01 - EP US)

Citation (examination)

Titanium Sci. Technolog., Proc. Int. Conf., 2nd. 1972 (Publ. 1973). 4, Seiten 2487-2499

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