

Title (en)

\$g(G)-TIAL ALLOY-BASED COMPONENT COMPRISING AREAS HAVING A GRADUATED STRUCTURE

Title (de)

BAUTEIL AUF BASIS VON GAMMA-TIAL-LEGIERUNGEN MIT BEREICHEN MIT GRADIERTEM GEFÜGE

Title (fr)

COMPOSANT A BASE D'ALLIAGES GAMMA-TIAL COMPORTANT DES ZONES DE STRUCTURE GRADUEE

Publication

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Application

EP 01936369 A 20010517

Priority

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- EP 0105621 W 20010517

Abstract (en)

[origin: WO0188214A1] The invention relates to a single-piece gamma -TiAl-based intermetallic alloy component having a graduated structural transition between spatially adjacent areas, each area being provided with a different structure. Said component has a lamellar cast structure composed of alpha 2/ gamma lamellae in at least one area; a near- gamma structure, a duplex structure or a fine lamellar structure in at least one other area; and a transition zone with a graduated structure between these areas. The lamellar cast structure gradually changes in said transition zone into the other named structure. The invention also relates to a method for producing said component.

IPC 1-7

C22C 14/00; **C22C 1/02**; **C22F 1/18**; **F01L 3/02**; **F01D 5/28**

IPC 8 full level

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CPC (source: EP US)

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