

Title (en)

Process for cold forming non-alloyed titanium.

Title (de)

Verfahren zum Kaltverformen von unlegiertem Titan.

Title (fr)

Procédé pour le profilage à froid de titane non allié.

Publication

**EP 0436910 B1 19941026 (DE)**

Application

**EP 90125179 A 19901221**

Priority

DE 4000270 A 19900108

Abstract (en)

[origin: US5141565A] In a process for cold forming unalloyed titanium high strength and ductility, in particular high bendability, are obtained if the material is subjected to intermediate annealing at a temperature of up to 500 DEG C.

IPC 1-7

**C22F 1/18**

IPC 8 full level

**C22F 1/00** (2006.01); **C22F 1/18** (2006.01)

CPC (source: EP KR US)

**C21D 8/00** (2013.01 - KR); **C22F 1/18** (2013.01 - KR); **C22F 1/183** (2013.01 - EP US)

Citation (examination)

- U. Zwicker, Titan und Titanlegierungen, Seiten 226-232, Springer-Verlag Berlin, 1974
- H. Feldmann, Einfluss der Verformungen und Temperatur auf mechanische Eigenschaften von unlegiertem Titan, Dissertation T.H. Aachen vom 10.7.64

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Designated contracting state (EPC)

AT CH ES FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0436910 A1 19910717**; **EP 0436910 B1 19941026**; AT E113321 T1 19941115; DE 4000270 A1 19910711; DE 4000270 C2 19990204; ES 2063891 T3 19950116; JP 3318335 B2 20020826; JP H04247856 A 19920903; KR 100211488 B1 19990802; KR 910014520 A 19910831; US 5141565 A 19920825

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**EP 90125179 A 19901221**; AT 90125179 T 19901221; DE 4000270 A 19900108; ES 90125179 T 19901221; JP 23891 A 19910107; KR 910000127 A 19910108; US 63576590 A 19901228