

Title (en)  
Method for the treatment of metal materials

Title (de)  
Verfahren zur Behandlung metallischer Werkstoffe

Title (fr)  
Méthode de traitement de matériaux métalliques

Publication  
**EP 1214995 A3 20030806 (DE)**

Application  
**EP 01127929 A 20011123**

Priority  
DE 10062310 A 20001214

Abstract (en)  
[origin: EP1214995A2] Process for treating metallic materials, especially for consolidating the structure of metallic materials comprises producing a blank of the metallic materials, heating to a deformation temperature and deforming the blank. An Independent claim is also included for a blank made from titanium aluminide. Preferably deformation is exerted by producing torsion or compressing. Heating is carried out using electrical induction. Deformation is carried out at 1,000 degrees C.

IPC 1-7  
**B21J 5/00; C22F 1/18**

IPC 8 full level  
**C22F 1/18** (2006.01); **B21J 5/00** (2006.01); **B21J 9/08** (2006.01); **C21D 7/13** (2006.01); **C21D 8/00** (2006.01); **C22C 14/00** (2006.01); **C22F 1/00** (2006.01); **C22F 1/02** (2006.01)

CPC (source: EP KR US)  
**B21J 1/025** (2013.01 - EP US); **B21J 9/08** (2013.01 - EP US); **C21D 7/13** (2013.01 - EP KR US); **C21D 8/02** (2013.01 - EP US); **C22F 1/183** (2013.01 - EP US)

Citation (search report)

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- [X] US 5039356 A 19910813 - WEISS ISAAC [US], et al
- [X] RU 2056214 C1 19960320 - OTKRYTOE AKTSIONERNOE OBSHCHE [RU]
- [X] DATABASE WPI Derwent World Patents Index; AN 1985-054318 [09], XP002243457
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Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 1214995 A2 20020619; EP 1214995 A3 20030806; EP 1214995 B1 20061011**; AT E342142 T1 20061115; CN 1237196 C 20060118; CN 1380437 A 20021120; DE 10062310 A1 20020718; DE 10062310 C2 20021107; DE 50111187 D1 20061123; ES 2269282 T3 20070401; JP 2002241912 A 20020828; JP 3859504 B2 20061220; KR 100505168 B1 20050803; KR 20020047012 A 20020621; RU 2222635 C2 20040127; US 2002157740 A1 20021031; US 7115177 B2 20061003

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**EP 01127929 A 20011123**; AT 01127929 T 20011123; CN 01144321 A 20011214; DE 10062310 A 20001214; DE 50111187 T 20011123; ES 01127929 T 20011123; JP 2001382273 A 20011214; KR 20010079339 A 20011214; RU 2001134134 A 20011213; US 2168401 A 20011211