

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
- [X] DATABASE WPI Derwent World Patents Index; AN 1986-060428 [09], XP002243458
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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