

Title (en)

Process for manufacturing of a steel product and product obtained

Title (de)

Verfahren zur Herstellung eines Produkts aus Stahl und danach hergestelltes Produkt

Title (fr)

Procédé pour la fabrication d'un produit en acier et produit obtenu

Publication

EP 1327692 A3 20040512 (DE)

Application

EP 02028379 A 20021218

Priority

- DE 10201009 A 20020111
- US 33805003 A 20030108

Abstract (en)

[origin: EP1327692A2] For the production of a steel component (15), e.g. for construction, the steel has an initial metastable phase to give it a first set of characteristics. The material is processed in a second phase by a thermodynamic action which gives the steel a second set of characteristics. The first phase is austenite, and the second phase is bainite or martensite. The component has alternating soft zones (10) and hard zones (11) with a circular cross-section (B,C). During the second phase the hard zones resist distortion to give only an out-of-round shape (B'), and the soft zones (10') collapse readily into a star shape (C').

IPC 1-7

C21D 8/00; **C21D 8/02**; **C21D 8/10**; **C21D 1/42**

IPC 8 full level

C21D 1/42 (2006.01); **C21D 8/02** (2006.01); **C21D 9/60** (2006.01); **C22C 38/00** (2006.01); **C21D 8/10** (2006.01)

CPC (source: EP US)

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Citation (search report)

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DOCDB simple family (publication)

EP 1327692 A2 20030716; **EP 1327692 A3 20040512**; **EP 1327692 B1 20120530**; DE 10201009 C1 20031016; JP 2003231916 A 20030819; US 2004129355 A1 20040708

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