

Title (en)

PROCESS FOR MANUFACTURING HIGHLY RESISTANT DUCTILE WORK PIECES FROM IRON BASED ALLOYS RICH IN CARBON

Publication

EP 0149210 A3 19870729 (DE)

Application

EP 84116080 A 19841221

Priority

DE 3346089 A 19831221

Abstract (en)

[origin: EP0149210A2] Very high strengths on the one hand and advantageous ductile properties on the other hand are to be obtained by the process. In a first stage, the iron-based alloys are quenched and atomised in such a way that the predominant quantity of the resulting powder particles is obtained with a diameter of less than 30 μm and that, in the second stage, the powder particles thus obtained are subjected to a thermomechanical compacting treatment.

IPC 1-7

C22C 33/02; **B22F 9/08**; **B22F 3/14**

IPC 8 full level

B22F 3/14 (2006.01); **B22F 9/08** (2006.01); **B22F 9/10** (2006.01); **C22C 33/02** (2006.01)

CPC (source: EP)

B22F 9/10 (2013.01); **C22C 33/02** (2013.01); **C22C 33/0257** (2013.01)

Citation (search report)

- [Y] DE 2650766 A1 19780511 - BRITISH STEEL CORP
- [Y] US 4331478 A 19820525 - RO DAVID H, et al
- [Y] DE 3300582 A1 19830721 - METAL LEVE SA [BR]
- [Y] GB 2116207 A 19830921 - MARKO MATERIALS INC
- [Y] DE 1918176 A1 19691106 - HOEGANAES AB

Cited by

DE4325346A1; US5456578A; DE4325346C2; EP0808681A4

Designated contracting state (EPC)

BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0149210 A2 19850724; **EP 0149210 A3 19870729**; **EP 0149210 B1 19920429**; DE 3346089 A1 19850718; DE 3346089 C2 19880114; DE 3485689 D1 19920604

DOCDB simple family (application)

EP 84116080 A 19841221; DE 3346089 A 19831221; DE 3485689 T 19841221