

Title (en)

ALLOY CONTAINING CHROMIUM FOR PUNCHING PLATES AND COUNTER PLATES

Publication

EP 0207052 B1 19900801 (DE)

Application

EP 86890138 A 19860514

Priority

AT 152985 A 19850521

Abstract (en)

[origin: US4880481A] Punch and counter punch plates are fabricated from chromium containing alloys, essentially consisting of, each in percent by weight, carbon in the range of 0 to 1.1, silicon in a maximum of 1.0, manganese in a maximum of 1.5, chromium in the range of 11.0 to 17.5, molybdenum in the range of 0 to 1.5, nickel in the range of 0.35 to 10.0, copper in the range of 0 to 4.5, vanadium in the range of 0 to 0.5, cobalt in the range of 0 to 1.5, niobium in the range of 0 to 0.45, titanium in the range of 0 to 1.5, nitrogen in the range of 0 to 0.1, the remainder being iron and impurities resulting from the manufacturing conditions.

IPC 1-7

C22C 38/18; **C22C 38/24**; **C22C 38/42**; **C22C 38/48**

IPC 8 full level

C22C 38/00 (2006.01); **B30B 15/02** (2006.01); **C22C 38/18** (2006.01); **C22C 38/24** (2006.01); **C22C 38/42** (2006.01); **C22C 38/48** (2006.01); **C22C 38/52** (2006.01)

CPC (source: EP KR US)

C22C 38/18 (2013.01 - EP US); **C22C 38/24** (2013.01 - EP US); **C22C 38/42** (2013.01 - EP US); **C22C 38/48** (2013.01 - EP US); **C22C 38/52** (2013.01 - KR)

Citation (examination)

- EP 0136997 A1 19850410 - VER EDELSTAHLWERKE AG [AT]
- Stahlschlüssel (1983), p. 179, 181, 211 (Verlag Stahlschlüssel, C. Wegst)

Cited by

EP0338133A3; EP1164002A3; CN109536854A

Designated contracting state (EPC)

CH DE FR GB IT LI NL

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EP 0207052 A1 19861230; **EP 0207052 B1 19900801**; AT 392485 B 19910410; AT A152985 A 19900915; CA 1279211 C 19910122; DE 3673087 D1 19900906; JP 2729790 B2 19980318; JP S61266554 A 19861126; KR 860009153 A 19861220; KR 930009982 B1 19931013; US 4880481 A 19891114

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