

Title (en)

Use of a ferritic-austenitic chromium-nickel steel.

Title (de)

Verwendung eines ferritisch-austenitischen Chrom-Nickel-Stahles.

Title (fr)

Utilisation d'un acier ferritique-austénitique au chrome-nickel.

Publication

EP 0005439 A1 19791128 (DE)

Application

EP 79101013 A 19790403

Priority

DE 2815439 A 19780410

Abstract (en)

[origin: US4272305A] Steel bodies composed of ferritic-austenitic Cr-Ni steel with 30 to 70% austenite and consisting essentially of: up to 0.1% by weight carbon, up to 1.0% by weight silicon, 4.0% to 6.0% by weight manganese, 22.0% to 28.0% by weight chromium, 3.5% to 5.5% by weight nickel, 1.0% to 3.0% by weight molybdenum, 0.35% to 0.6% by weight nitrogen, balance iron and unavoidable impurities, are subjected to forging and after even second degree deforming, possess a notch impact strength (tenacity) according to the ISO-V test of more than 35 Joule and a minimum yield point of 600 N/mm².

Abstract (de)

Die Verwendung eines ferritisch-austenitischen Cr-Ni-Stahles, der 30 bis 70% Austenit enthält und der max. 0,1% C, max. 1,0% Si, 4,0 bis 6,0% Mn, 22,0 bis 28,0% Cr, 3,5 bis 5,5% Ni, 1,0 bis 3,0% Mo, 0,35 bis 0,6% N, Rest Eisen und unvermeidliche Verunreinigungen enthält, für Schmiedestücke, die bereits bei zweifachem Verformungsgrad eine Kerbschlagzähigkeit (nach ISO-V) von mehr als 35 Joule bei einer Mindeststreckgrenze von 600 N/mm² besitzen müssen.

IPC 1-7

C22C 38/58

IPC 8 full level

C22C 38/00 (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP US)

C22C 38/58 (2013.01 - EP US)

Citation (search report)

- FR 2228119 A1 19741129 - NIPPON STEEL CORP [JP]
- FR 2007566 A1 19700109 - ARMCO STEEL CORP
- DE 2752083 A1 19780608 - ALLEGHENY LUDLUM IND INC
- GB 1158614 A 19690716 - LANGLEY ALLOYS LTD
- DE 1194587 B 19650610 - PHOENIX RHEINROHR AG, et al
- US 3311511 A 19670328 - GOLLER GEORGE N
- FR 2372902 A1 19780630 - ALLEGHENY LUDLUM IND INC [US]

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CN103797134A; EP0123054A1; EP0089943A1; WO2013037999A1

Designated contracting state (EPC)

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EP 0005439 A1 19791128; EP 0005439 B1 19810610; EP 0005439 B2 19870107; AT 360571 B 19810126; AT A232679 A 19800615; CA 1127881 A 19820720; CS 216926 B2 19821231; DD 142894 A5 19800716; DE 2815439 A1 19791018; DE 2815439 B2 19800221; DE 2815439 C3 19801009; JP S54155115 A 19791206; JP S5814872 B2 19830322; US 4272305 A 19810609

DOCDB simple family (application)

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