

Title (en)
Silicon alloyed steel.

Title (de)
Siliziumstahl.

Title (fr)
Acier au silicium.

Publication
EP 0003208 A1 19790725 (EN)

Application
EP 79850001 A 19790104

Priority
FI 780026 A 19780105

Abstract (en)
This invention is related to a high strength steel provided with a bainitic-austenitic microstructure which is accomplished by isothermal heat treatment. Said steel contains various alloying elements in the following amounts expressed as weight percentage: Carbon (C) 0.8 - 1.2% Silicon (Si) 2.0 - 2.6% Manganese (Mn) 0.3 - 1.0%, preferably 0.3 - 0.5%, the remainder consisting of iron and normal impurities.

IPC 1-7
C22C 38/02; **C21D 1/20**; **C22C 38/08**; **C22C 38/12**; **C22C 38/34**; **C22C 38/40**; **C22C 38/44**; **C22C 38/48**

IPC 8 full level
C21D 1/20 (2006.01); **C22C 38/02** (2006.01)

CPC (source: EP)
C21D 1/20 (2013.01); **C22C 38/02** (2013.01)

Citation (search report)

- [X] CH 311324 A 19551130 - GUSSSTAHLWERK WITTEN AKTIENGES [DE]
- [X] FR 1286077 A 19620302 - RENAULT
- [X] US 3528088 A 19700908 - SEGHEZZI HANS-DIETER, et al
- DE 2334992 A1 19740207 - KYMIN OY KYMMENE AB
- [A] US 1924099 A 19330829 - BAIN EDGAR C, et al
- ARCHIV EISENHÜTTENWESEN, Vol. 45, No. 9, 1974, Düsseldorf. H. SEILSTORFER et al: "Umwandungsverhalten in der Zwischenstufe und Einfluß der Umwandlung auf die mechanischen Eigenschaften von Stahl 71 Si 7", pages 623 to 627.

Cited by
GB2485107A; US2010307641A1; US8465601B2; EP2235227A4; GB2462197A; GB2462197B; WO2008019717A1; US8956470B2; WO2011023988A3

Designated contracting state (EPC)
BE CH DE FR GB NL SE

DOCDB simple family (publication)
EP 0003208 A1 19790725; CA 1130617 A 19820831; DK 583778 A 19790706; FI 780026 A 19790706; IT 1110730 B 19860106; IT 7919100 A0 19790105; NO 790013 L 19790706

DOCDB simple family (application)
EP 79850001 A 19790104; CA 319150 A 19790104; DK 583778 A 19781228; FI 780026 A 19780105; IT 1910079 A 19790105; NO 790013 A 19790103