

Title (en)
Forging and a method for its manufacture.

Title (de)
Schmiedestück und Verfahren zur seiner Herstellung.

Title (fr)
Pièce forgée et procédé pour sa fabrication.

Publication
EP 0586179 A1 19940309 (EN)

Application
EP 93306710 A 19930824

Priority
FI 923929 A 19920902

Abstract (en)
An improved forging with favourable strength features and toughness is produced of a material which in addition to iron and incidental impurities consists of the following elements in percent by weight: C from 0.04 to 0.14 Si from 0.05 to 0.50 Mn from 0.6 to 1.0 Cr from 1.0 to 2.0 Mo from 0.04 to 0.25 S from 0 to 0.15 Al from 0 to 0.1 B from 0 to 0.015 Ti from 0 to 0.05 The billet is forged within a temperature range of 800 DEG C to 1300 DEG C and that the billet, which has then become a forging, is quenched immediately after the forging procedure. Water or a water-based emulsion or solution is generally used for the quenching.

IPC 1-7
C22C 38/22; **C21D 1/02**

IPC 8 full level
C21D 1/02 (2006.01); **C21D 7/13** (2006.01); **C22C 38/22** (2006.01); **C21D 1/60** (2006.01)

CPC (source: EP)
C21D 1/02 (2013.01); **C21D 7/13** (2013.01); **C22C 38/22** (2013.01); **C21D 1/60** (2013.01)

Citation (search report)
• [Y] DE 749477 C 19530323 - EDELSTAHLWERKE A G KREFELD DEU, et al
• [Y] US 3348981 A 19671024 - SUSUMU GODA, et al
• [A] US 4711676 A 19871208 - KITAORI TADAHIRO [JP], et al
• [A] DE 927213 C 19550502 - OBERHUETTEN VEREINIGTE OBERSCH

Cited by
CN111057933A; WO2008037327A1; US8377238B2

Designated contracting state (EPC)
DE FR GB SE

DOCDB simple family (publication)
EP 0586179 A1 19940309; **EP 0586179 B1 19981111**; DE 69322028 D1 19981217; DE 69322028 T2 19990401; FI 923929 A0 19920902; FI 923929 A 19940303; FI 95049 B 19950831; FI 95049 C 19951211

DOCDB simple family (application)
EP 93306710 A 19930824; DE 69322028 T 19930824; FI 923929 A 19920902