

Title (en)
Process for manufacturing steel forging

Title (de)
Herstellungsverfahren eines Stahlschmiedestücks

Title (fr)
Procédé de fabrication d'une pièce forgée en acier

Publication
EP 0787812 B1 20040317 (FR)

Application
EP 97400025 A 19970108

Priority
FR 9601525 A 19960208

Abstract (en)
[origin: EP0787812A1] Steel for forging comprises by weight 0.1-0.4% carbon, 1-1.8% manganese, 0.15-1.7% silicon and up to 1% nickel, 1.2% chromium, 0.3% molybdenum, 0.3% vanadium and 0.35% copper. Optional ingredients are 0.005-0.06% aluminium, 0.0005-0.01% boron, 0.005-0.03% titanium, 0.005-0.06% niobium, 0.005-0.1% sulphur and up to 0.006% calcium, 0.03% tellurium, 0.05% selenium, 0.05% bismuth and 0.1% lead, the remainder being iron and impurities. Also claimed is hot-forging a component from an ingot of the steel followed by heat treatment to produce a structure comprising at least 15% bainite and at least 20% ferrite perlite.

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IPC 8 full level
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Citation (examination)

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