

Title (en)
HIGH TENSILE STRENGTH DRAWN STEEL WIRE WITH IMPROVED DUCTILITY

Publication
EP 0218167 B1 19901128 (EN)

Application
EP 86113353 A 19860929

Priority
• JP 21477085 A 19850930
• JP 21477185 A 19850930
• JP 21497785 A 19850930

Abstract (en)
[origin: EP0218167A1] The high tensile drawn steel wire of the present invention contains 0.4 to 1.0% by weight of C, 2.0% or less by weight of Si, 0.2 to 2% by weight of Mn, 0.02% or less by weight of P, 0.02% or less by weight of S, and 0.01% or less by weight of N, and has a strength of 130 kgf/mm<2> or more and a residual compression stress of between (0.05 sigma + 23) and (0.35 sigma + 28) kgf/mm<2> on its surface, depending on its strength sigma . The steel wire has excellent ductility. The method of producing the steel wire comprises the step of applying a residual compression stress on its surface, preferably by rolling in a rolling machine (3).

IPC 1-7
C21D 7/04; **C21D 8/06**; **C22C 38/04**

IPC 8 full level
C21D 7/04 (2006.01); **C21D 8/06** (2006.01); **C22C 38/04** (2006.01); **C22C 38/54** (2006.01)

CPC (source: EP KR)
C21D 7/04 (2013.01 - EP); **C21D 8/06** (2013.01 - EP); **C22C 38/04** (2013.01 - EP); **C22C 38/54** (2013.01 - KR)

Citation (examination)
Herstellung von Stahldraht , Teil 1 ,pages 187,225,257-260, Verein Deutscher Eisenhüttenleute , 1969

Cited by
US7255758B2; EP1036851A4; CN110055392A; CN101909435A; CN110157988A; EP0611669A1; DE10017069B4; EP1063313A4; US5240520A; EP0516857A4; CN110184537A; DE4302635A1; DE4302635C2; US8534227B2; US10072317B2; WO2009089970A1; US10081846B2

Designated contracting state (EPC)
BE DE FR

DOCDB simple family (publication)
EP 0218167 A1 19870415; **EP 0218167 B1 19901128**; DE 3675874 D1 19910110; KR 870003227 A 19870416; KR 910003978 B1 19910617

DOCDB simple family (application)
EP 86113353 A 19860929; DE 3675874 T 19860929; KR 860008244 A 19860930