

Title (en)

HIGH TENSILE STRENGTH DRAWN STEEL WIRE WITH IMPROVED DUCTILITY

Publication

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Application

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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

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CPC (source: EP KR)

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Citation (examination)

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

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