

Title (en)
METHOD OF PRODUCING STEEL WIRE

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES STAHLDRATES

Title (fr)
PROCÉDÉ DE FABRICATION DE FIL D'ACIER

Publication
EP 2404681 B1 20181107 (EN)

Application
EP 10748749 A 20100302

Priority
• JP 2010053352 W 20100302
• JP 2009047890 A 20090302

Abstract (en)
[origin: EP2404681A1] Provided is a production method in which a steel having a good tensile strength can be produced with a small processing energy. The method is a method of producing a steel wire, the method including: a pre-drawing process in which a high-carbon steel wire containing 0.90 to 1.20% by mass of carbon is subjected to a drawing to obtain an intermediate wire; a heat treatment process in which the intermediate wire is subjected to a patenting heat treatment to obtain a heat treated wire; and a final drawing process in which the heat treated wire is subjected to a drawing to obtain a steel wire, wherein the amount μ_f of drawing in the final drawing process which satisfies the relation represented by the following formula: $\mu_f = 2 \ln D \# 0 / D_f$ (wherein D_f represents the final diameter of the steel wire obtained in the final drawing process, D_0 represents the diameter of the heat treated wire before the final drawing process and \ln represents natural logarithm) is 2.50 to 3.10.

IPC 8 full level
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CPC (source: EP US)
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