

Title (en)

METHOD FOR MANUFACTURING HEAT- TREATED DEFORMED STEEL

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES WÄRMEBEHANDELTEN VERFORMTEN STAHLDRAHTE

Title (fr)

PROCEDE DE FABRICATION D'UN FIL D'ACIER DEFORME PAR TRAITEMENT THERMIQUE

Publication

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Application

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Priority

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Abstract (en)

Rolling/heating means (6), a four-way roll rolling machine (7) and a quenching/cooling means (8) are arranged close to each other in tandem. An untreated steel wire (W1) is quickly heated to a rolling temperature by the heating means (6) and is rolled into a deformed steel wire (W2) having a predetermined section by the four-way roll rolling machine (7). Just after this rolling, the steel wire (W2) is quenched by the quenching/cooling means (8) while applying tension by a pinch roll (9), thus form-hardening it. At this time, the pinch roll (9) is driven by a motor (9a) having a torque converter, so that the tension is hardly varied to give no size variation to the deformed steel wire. Downstream of the quenching/cooling means, there is also arranged in tandem a tempering/heating coil (10) to temper the steel wire continuously. Thus, there is manufactured at one step a heat-treated deformed steel wire quenched and heat-treated without any small curve.

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