

Title (en)

SYSTEM AND METHOD FOR PRODUCING STEEL PRODUCTS IN THE FORM OF WIRES AND/OR BARS

Title (de)

ANLAGE UND VERFAHREN ZUR HERSTELLUNG VON DRAHT- UND/ODER STABFÖRMIGEN STÄHLEN

Title (fr)

SYSTÈME ET PROCÉDÉ DE PRODUCTION DE PRODUITS EN ACIER SOUS FORME DE FILS ET/OU DE BARRES

Publication

**EP 4347905 A1 20240410 (DE)**

Application

**EP 22718929 A 20220329**

Priority

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- EP 2022058212 W 20220329

Abstract (en)

[origin: WO2022248102A1] The present application relates to a system (1) and a method for the thermomechanical rolling of long semifinished steel products (2), comprising a first rolling device (5); a second rolling device (7), arranged downstream of the first rolling device (5) in the transporting direction; optionally a first cooling device (6), arranged between the first and second rolling devices (5, 7); a first thermomechanical sizing block (11), arranged downstream of the second rolling device (7) in the transporting direction; a second cooling device (9), arranged between the second rolling device (7) and the first thermomechanical sizing block (11, 11.1); a cooling-bed, ring-laying and/or coil-winding device (16), arranged downstream of the first thermomechanical sizing block (11) in the transporting direction; a third cooling device (14), arranged between the first thermomechanical sizing block (11) and the cooling-bed, ring-laying and/or coil-winding device (16); and also a structure-sensor device (17), which is arranged between the first thermomechanical sizing block (11) and the cooling-bed, ring-laying and/or coil-winding device (16) and can be used for determining directly in the ongoing process a martensitic structure, in particular a proportion of martensite in percent by area (% by area), in the thermomechanically rolled long semifinished steel product or in the steel product (3) in the form of a wire or bar.

IPC 8 full level

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