

Title (en)

PROCESSES AND DEVICES FOR THE HEAT TREATMENT OF METAL WIRES BY BRINGING THEM AROUND CAPSTANS.

Title (de)

VERFAHREN UND VORRICHTUNG ZUM KONTINUIERLICHEN WÄRMEBEHANDELN METALLISCHER DRÄHTE AUF ROTIERENDEN TROMMELN.

Title (fr)

PROCEDES ET DISPOSITIFS PERMETTANT DE TRAITER THERMIQUEMENT DES FILS METALLIQUES EN LES FAISANT PASSER SUR DES CABESTANS.

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9104345A1] Process and device (1) for the heat treatment of at least one metal wire (4) using capstans (2, 3) characterised by the following features: a) the wire (4) is brought around at least two capstans (2, 3) which conduct the heat and which include recesses (11). The wire (4) is reeved and crossed in said recesses (11), the width of the recesses (11) being slightly greater than that of the wire (4); b) the capstans (2, 3) are heated or cooled by means of at least one gas (27), which passes between the capstans and a part which is in contact with a heat exchanging fluid; c) the thickness of the gas layer is chosen according to the heat treatment to be applied. Installations for the heat treatment of metal wires (4) include at least one device (1), metal wires (4) treated by the process and/or the device (1), and/or the installations according to the invention, as well as items reinforced by said wires (4), in particular tyre treads.

IPC 1-7

C21D 9/56; **C21D 9/64**

IPC 8 full level

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CPC (source: EP US)

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Citation (examination)

- Patent Abstracts of Japan, vol. 12, no 37 (C-473) (2884), 04.02.88, & JP,A,62185835 (KOA KAGAKU KOGYO K.K.) 14.08.87
- Patent Abstracts of Japan, vol.8, no 67 (C-216) (1504), 29.03.84, & JP,A, 58217640 (SHINKOU KOUSEN KOGYO K.K.) 17.12.83

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