

Title (en)

Process for high-temperature carburizing treatment of track bushes for tractors or tracked vehicles, with carburizing atmosphere produced in situ, direct quenching, annealing at ends and total stress relieving.

Title (de)

Verfahren zur Behandlung von Gleiskettenbuchsen für Traktoren oder Raupenkettentraktoren durch Aufkohlen bei hohen Temperaturen mit in situ erzeugter Kohlungsatmosphäre, durch Direkthärtung, Anlassen der Enden und Spannungsarmglühen.

Title (fr)

Procédé de traitement de douille pour patin de chenille des tracteurs ou véhicules chenillés par carburation à température élevée dans une atmosphère carburée produite in situ, par trempe directe, revenu des bouts et recuit de détente.

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Application

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Priority

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Abstract (en)

The invention refers to a process for the production of track bushes for tractors and tracked vehicles in general, said bushes being carburized in semicontinuous furnaces, with preheating chamber and extraction chamber, in which the carburizing atmosphere is obtained directly in situ, and then individually submitted to direct quenching, followed by tempering of the ends and total stress-relieving. The production cycle calls for tight control of temperatures and of treatment times as well as of the composition of the carburizing atmosphere; on the other hand it ensures a big saving in energy, shorter treatment times and consistently high product quality.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [Y] US 3227586 A 19660104 - SPENCER T H
- [A] GB 1489106 A 19771019 - HAWERA PROBST KG HARTMETALL
- [A] US 4152177 A 19790501 - MANTEL EDWARD R [US], et al
- [A] DE 632935 C 19360716 - BENNO SCHILDE MASCHB AKT GES
- [A] DE 2710748 B2 19810122
- [Y] METAL SCIENCE & HEAT TREATMENT, vol. 21, no. 7, July-August 1979, New York L.B. EFIMOVA et al. "Carburizing of caterpillar track bushings in fluidized bed", pages 609-611

Cited by

EP0375392A3; EP0147845A3; FR2755980A1; EP0455346A1; US6193820B1

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