

Title (en)

Method for producing gears and/or shaft components with superior bending fatigue strength and pitting fatigue life from conventional alloy steel

Title (de)

Verfahren zur Herstellung von Getrieben und/oder Achsen, die verbesserte Biegedauerfestigkeit und Dauerlochfrassfestigkeit als bisherige legierte Stähle aufweisen.

Title (fr)

Procédé pour produire des engrenages et/ou des arbres présentant une résistance a la fatigue en flexion et a la fatigue piqures supérieure à celle des aciers conventionnelles.

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Application

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Priority

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Abstract (en)

The present invention is directed to a method for producing steel components such as gears and/or shafts of superior bending fatigue strength and pitting fatigue life. According to the present invention said components are made from a steel material , comprising <TABLE> balance iron including impurities, produced in vacuum degassing and alike routes. wherein these components are subjected to a method comprising in sequence the steps of subjecting said steel components to a process of modified Carbonitriding treatment, and subjecting said steel components to a process of Hard Shot Peening. <IMAGE>

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Citation (search report)

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- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 11 30 September 1998 (1998-09-30)
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- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 03 27 February 1998 (1998-02-27)
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