

Title (en)
PROCESS AND DEVICE FOR INFLUENCING THE CHANGES IN SIZE AND SHAPE OF WORKPIECES DURING HARDENING

Title (de)
VERFAHREN UND VORRICHTUNG ZUM BEEINFLUSSEN VON MASS- UND FORMÄNDERUNGEN BEIM HÄRTEN VON WERKSTÜCKEN

Title (fr)
PROCEDE ET DISPOSITIF PERMETTANT D'INFLUER SUR LES CHANGEMENTS DE DIMENSIONS ET DE FORME DE PIECES PENDANT LEUR DURCISSEMENT

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Application
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Abstract (en)
[origin: WO9525182A1] A process and device are disclosed for influencing the changes in size and shape of workpieces during hardening. Mechanical accessories, in particular mandrel fixtures, are used for hardening workpieces. In known processes, the carburised workpieces are set on said mandrel fixtures and quenched. In order to simplify and reduce the cost of a hardening process by means of mandrel fixtures, the individual operations such as carburising, stacking of workpieces on the mandrel fixture and quenching are combined in a single process. A mechanical accessory used to carry out this process is made of a material that does not carburise together with the workpieces, i.e. the surface of the mandrel fixture is not changed into a hardened microstructure during carburising.

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