

Title (en)

METHOD AND DEVICE FOR PRODUCING A METAL COMPONENT AND USE OF SUCH A COMPONENT

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG EINES METALLBAUTEILS UND VERWENDUNG EINES SOLCHEN METALLBAUTEILS

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR PRODUIRE UN COMPOSANT MÉTALLIQUE ET UTILISATION D'UN TEL COMPOSANT MÉTALLIQUE

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Application

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Abstract (en)

[origin: WO2011026712A2] The invention relates to a method for producing a metal component, in particular a component of a motor vehicle, in which a steel part (16, 104) is hot-worked and hardened, at least in certain portions, by contact with a tool surface (14), in which the steel part (16, 104) is cooled at different cooling rates in at least two partial regions (152, 154, 162, 164) during the hardening, so that the partial regions (152, 154, 162, 164) differ in their microstructure after the hardening, the different cooling rates being brought about by sections (32, 34, 36, 38, 66, 68, 70, 72) of the tool surface (14) that correspond to the partial regions (152, 154, 162, 164) of the steel part (16, 104) and differ from one another in their thermal conductivities. The invention also relates to a further method for producing a metal component, and to a tool and to a batch furnace.

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