

Title (en)
METHOD FOR PRODUCING A STEEL SHAPED BODY

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES STAHLFORMKÖRPERS

Title (fr)
PROCÉDÉ DE FABRICATION D'UN CORPS MOULÉ MÉTALLIQUE

Publication
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Application
EP 14734065 A 20140620

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Abstract (en)
[origin: WO2014206890A1] The invention relates to a method for producing a steel shaped body, particularly, for example, a component for common rail fuel injection valves, comprising the method steps of: forming a powdery composition based on iron oxide, from oxide particles, with the addition of carbon and micro-alloy elements so as to adjust a bainitic microstructure; heating the powdery composition to a sinter temperature; reducing the shaped body obtained by sintering; and cooling the sintered shaped body to room temperature. As a result, from the three essential state phases in a state diagram (10), specifically the ferrite-perlite state range (11), the bainite state range (12) and the martensite state range (13), preferably the bainitic state phase is formed in a medium temperature range by the ferrite-perlite state range (11) being shifted to longer cooling periods and the martensite state range (13) being shifted to lower temperatures.

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Cited by
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