

Title (en)
METALLIC STEEL MATERIAL

Title (de)
METALLISCHER STAHL-WERKSTOFF

Title (fr)
MATÉRIAU EN ACIER MÉTALLIQUE

Publication
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Application
EP 13795241 A 20131125

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Abstract (en)
[origin: WO2014082945A1] The invention relates to a metal material. The aim of the invention is to increase the cyclical stress resistance, in particular such as an improved vibration resistance and greater toughness, with a simultaneous low degree of dimensional change during heat treatments. This is achieved in that the material has at least iron, carbon, chromium, molybdenum, and vanadium, said material having a bainitic structure, and additionally carbide phases are provided which are at least partly made of molybdenum, vanadium, and/or chromium in the form of a carbide. At least some of the carbide phases have a diameter of less than or equal to 200 nm. The invention further relates to a method for producing a metal material, to a use of a metal material, and to an injection component.

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