

Title (en)

WEAR-RESISTANT UNCOATED STEEL PART

Title (de)

VERSCHLEISSFESTES UNBESCHICHTETES STAHLTEIL

Title (fr)

ÉLÉMENT EN ACIER NON REVÊTU RÉSISTANT À L'USURE

Publication

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Application

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Abstract (en)

[origin: CA2916155A1] The invention relates to a wear-resistant, at least partially uncoated steel part composed of a hardenable steel grade, which steel part has been produced from a semi-finished product by hot-forming and/or hardening. The invention further relates to a method for producing a wear-resistant, at least partially uncoated processing, conveying, and/or fracturing means of agricultural machines, conveying machines, mining machines, or construction machines from a semi-finished product, wherein the semi-finished product is heated to a temperature above the Ac1 conversion temperature and is subsequently hot-worked and/or hardened. The problem of proposing at least partially uncoated steel parts whose suitability for use with abrasive material is improved is solved for a steel part in that the steel part at least partially has a surface region that has been hardened to a depth of at most 100 µm, preferably to a depth of up to 40 µm, by means of surface hardening before the hot working and/or hardening.

IPC 8 full level

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See references of WO 2015000740A1

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