Title (en)

QUENCH HARDENED STEEL

Title (de)

ABSCHRECKGEHÄRTETER STAHL

Title (fr)

ACIER DURCIES PAR TREMPAGE

Publication

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Application

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Priority

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Abstract (en)

[origin: EP3354764A1] The present invention relates to a hardenable steel, hardened steel components made from the same, and methods for forming the same. The steel contains relatively high levels of molybdenum in comparison to chromium, silicon and manganese, with the molybdenum providing an excellent combination of hardness and impact strength in the hardened steel. The steel can be cold formed then reheat-quench hardened with water as the quenching agent with no cracking and optionally no tempering. The steels formed have Vickers hardness levels of over 630 Hv10 (e.g. over 700 Hv10), and impact strengths of over 3 J/cm 2 (e.g. over 20 J/cm 2).

IPC 8 full level

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