

Title (en)

PROCESS FOR PRODUCING A HOT-FORMED AND PRESS-HARDENED SHEET STEEL COMPONENT

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES WARMUMGEFORMTEN UND PRESSGEHÄRTETEN STAHLBLECHBAUTEILS

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE PIÈCE EN TÔLE D'ACIER FAÇONNÉE À CHAUD ET TREMPÉE À LA PRESSE

Publication

**EP 3976839 A1 20220406 (DE)**

Application

**EP 20729040 A 20200526**

Priority

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Abstract (en)

[origin: WO2020244974A1] The invention relates to a steel material comprising a steel alloy having at least the following constituents in per cent by weight: 0.30 to 0.42% carbon; 0.3 to 2.5% manganese; 0.8 to 2.2% silicon; up to 0.06% aluminium; up to 0.5% chromium, nickel and molybdenum together; up to 0.06% niobium; up to 0.1% vanadium; up to 0.01% titanium; 0.001 to 0.01% boron; up to 0.01% nitrogen; up to 0.01% sulfur; up to 0.02% phosphorus; balance: iron and impurities, wherein a microstructure consists of essentially bainite, stabilized residual austenite and martensite.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2020244974A1

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