

Title (en)

STEEL SHEET FOR HOT FORMING, HOT-FORMED MEMBER, AND METHOD FOR MANUFACTURING SAME

Title (de)

STAHLBLECH ZUM WARMFORMEN, WARMGEFORMTES TEIL UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

TÔLE D'ACIER POUR FORMAGE À CHAUD, ÉLÉMENT FORMÉ À CHAUD ET SON PROCÉDÉ DE FABRICATION

Publication

**EP 4008800 A1 20220608 (EN)**

Application

**EP 20860644 A 20200901**

Priority

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- KR 2020011684 W 20200901

Abstract (en)

Disclosed are a high-strength and non-plated steel sheet which is for hot forming and may be suitable for use in automotive structural members that require collision resistance characteristics, a hot-formed member, and a method for manufacturing same. A steel sheet for hot forming and a hot-formed member according to an embodiment of the present disclosure contain, in percent by weight (wt%), 0.05 to 0.3% of carbon (C), 0.5 to 3.0% of silicon (Si), 0.1 to 2.0% of manganese (Mn), 3.0 to 9.0% of chromium (Cr), more than 0% and less than 0.2% of nitrogen (N), and 0.03 to 1.0% of niobium (Nb), with the remainder comprising iron (Fe) and inevitable impurities.

IPC 8 full level

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CPC (source: CN EP KR US)

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