

Title (en)

STEEL SHEET FOR HOT STAMPING, METHOD FOR MANUFACTURING SAME, AND HOT STAMP MOLDED ARTICLE

Title (de)

STAHLBLECH ZUR HEISSPRÄGUNG, VERFAHREN ZUR HERSTELLUNG DAVON UND HEISSPRÄGEFORMKÖRPER

Title (fr)

TÔLE D'ACIER POUR ESTAMPAGE À CHAUD, SON PROCÉDÉ DE FABRICATION ET ARTICLE MOULÉ ESTAMPÉ À CHAUD

Publication

EP 3278895 B1 20200311 (EN)

Application

EP 16772842 A 20160329

Priority

- JP 2015072280 A 20150331
- JP 2016060145 W 20160329

Abstract (en)

[origin: EP3278895A1] A steel sheet for hot stamping includes a composition including at least, in mass%, C: 0.100% to 0.600%, Si: 0.50% to 3.00%, Mn: 1.20% to 4.00%, Ti: 0.005% to 0.100%, B: 0.0005% to 0.0100%, P: 0.100% or less, S: 0.0001% to 0.0100%, Al: 0.005% to 1.000%, and N: 0.0100% or less, with a balance of Fe and impurities, surface roughness of the steel sheet satisfies $R_z > 2.5 \mu\text{m}$, and 50 mg/m² to 1500 mg/m² of coating oil is applied to a surface.

IPC 8 full level

C21D 9/46 (2006.01); **B21B 1/04** (2006.01); **B21B 1/46** (2006.01); **C21D 6/00** (2006.01); **C21D 8/02** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/08** (2006.01); **C22C 38/12** (2006.01); **C22C 38/14** (2006.01); **C22C 38/16** (2006.01); **C22C 38/28** (2006.01); **C22C 38/32** (2006.01); **C22C 38/38** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR RU US)

B21B 1/04 (2013.01 - US); **B21B 1/463** (2013.01 - US); **B21B 3/00** (2013.01 - KR); **B21B 45/0242** (2013.01 - KR); **B21D 22/022** (2013.01 - KR); **B21D 22/20** (2013.01 - EP RU US); **B21D 24/00** (2013.01 - EP RU US); **C21D 6/005** (2013.01 - EP US); **C21D 6/008** (2013.01 - EP US); **C21D 8/0205** (2013.01 - EP US); **C21D 8/0226** (2013.01 - EP US); **C21D 8/0236** (2013.01 - EP US); **C21D 8/0278** (2013.01 - EP KR US); **C21D 9/46** (2013.01 - EP KR RU US); **C22C 38/00** (2013.01 - EP RU US); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP KR US); **C22C 38/004** (2013.01 - KR); **C22C 38/005** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP KR US); **C22C 38/06** (2013.01 - EP US); **C22C 38/08** (2013.01 - EP US); **C22C 38/12** (2013.01 - EP US); **C22C 38/14** (2013.01 - EP KR RU US); **C22C 38/16** (2013.01 - EP US); **C22C 38/28** (2013.01 - EP US); **C22C 38/32** (2013.01 - EP US); **C22C 38/38** (2013.01 - EP US); **C22C 38/58** (2013.01 - EP RU US); **C23F 11/00** (2013.01 - EP KR RU US); **C23G 1/08** (2013.01 - EP KR RU US); **B21B 2001/028** (2013.01 - US)

Cited by

CN114012056A; EP4230766A4; EP3282029A4; US10563281B2; DE102022108111A1; WO2023194450A1; US10822680B2; US11041225B2; EP3854900B1

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