

## Title (en)

STEEL USED FOR HOT STAMPING, HOT STAMPING PROCESS AND FORMED COMPONENT

## Title (de)

STAHL FÜR HEISSPRÄGEN, HEISSPRÄGEVERFAHREN UND FORMTEIL

## Title (fr)

ACIER UTILISÉ POUR L'ESTAMPAGE À CHAUD, PROCÉDÉ D'ESTAMPAGE À CHAUD ET COMPOSANT FORMÉ

## Publication

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## Application

**EP 18873592 A 20181029**

## Priority

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## Abstract (en)

[origin: WO2019085855A1] A kind of steel is able to achieve a high elongation with the steel used for hot stamping by means of simple hot stamping process. The formed component has excellent yield strength, tensile strength and elongation. The steel used for hot stamping comprises by weight percent 0.1- 0.19% of C, 5.09- 9.5% of Mn, 0.11- 0.4% of V, and 0-2% Si + Al, wherein the combination of C and V meets one of the following two requirements: 1) 0.1-0.17% of C and 0.11- 0.4% of V; and 2) 0.171- 0.19% of C and 0.209-0.4% of V.

## IPC 8 full level

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## CPC (source: CN EP KR US)

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- [X1] CN 106906420 A 20170630 - BAOSHAN IRON & STEEL
- [XA] WO 2017131053 A1 20170803 - JFE STEEL CORP [JP]
- [XA] WO 2017078278 A1 20170511 - POSCO [KR]
- [XA] CN 103397275 A 20131120 - CENTRAL IRON & STEEL RES INST
- [A] CN 106929755 A 20170707 - BAOSHAN IRON & STEEL
- [A] CN 106906421 A 20170630 - BAOSHAN IRON & STEEL
- [A] US 2014308156 A1 20141016 - OH JIN-KEUN [KR], et al
- [A] WO 2017068757 A1 20170427 - JFE STEEL CORP [JP]
- See references of WO 2019085855A1

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