

Title (en)

Method for carburising metal deep drawn article or a bent pressed article made of austenitic stainless steel

Title (de)

Verfahren zur Aufkohlung eines Tiefziehartikels oder eines Stanzbiegeartikels aus austenitischem nichtrostendem Edelstahl

Title (fr)

Procédé de carburation d'un article thermoformé ou d'un article plié-découpé à partir d'acier inoxydable austénitique

Publication

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Application

EP 13196076 A 20131206

Priority

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Abstract (en)

[origin: CN104451534A] The invention relates to a method for carburizing a deep drawing product or a punched bending product made of austenite rustproof stainless steel and having small wall thickness. The small wall thickness is common in at least some areas for such products. In a first process step, a product is inserted into an oven and heated to a first temperature; and the oxygen-containing standard atmosphere in the oven is replaced with a first gas mixture. In a second process step, the product is heated to a second temperature; and the first gas mixture is replaced with a second gas mixture. In a third process step, the product is maintained at the second temperature; and the second gas mixture is replaced with a third gas mixture. In a fourth process step, the product is cooled to a third temperature; and the third gas mixture is replaced with a fourth gas mixture.

IPC 8 full level

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CPC (source: CN EP US)

C21D 1/74 (2013.01 - EP US); **C23C 8/02** (2013.01 - CN EP US); **C23C 8/22** (2013.01 - CN EP US)

Cited by

US11396692B2; WO2020170264A1

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