

Title (en)

Process for the nitrocarburization of a deep drawn article or a bent pressed article made of austenitic stainless steel

Title (de)

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

Title (fr)

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

Publication

EP 2881493 B1 20160824 (DE)

Application

EP 13196075 A 20131206

Priority

EP 13196075 A 20131206

Abstract (en)

[origin: CN104694873A] A method for the nitro-carburization of a deep-drawn article or a stamped-bent article made of austenitic rustproof stainless steel includes inserting the article into an oven in a first process step and heating the article to a first temperature, wherein an oxygen containing standard atmosphere that is present in the oven is replaced by a first gas mixture, and in which the article is heated up to a second temperature in a second process step, wherein the first gas mixture is replaced by a second gas mixture, and in which the article is maintained on the second temperature in a third process step, wherein the article is treated with the second gas mixture, and in which the article is cooled down to a third temperature in a fourth process step, wherein the second gas mixture is replaced by a third gas mixture.

IPC 8 full level

C23C 8/34 (2006.01); **C23C 8/02** (2006.01)

CPC (source: CN EP US)

C23C 8/02 (2013.01 - CN EP US); **C23C 8/10** (2013.01 - CN EP US); **C23C 8/32** (2013.01 - CN EP US); **C23C 8/34** (2013.01 - CN EP US); **C23C 8/80** (2013.01 - CN EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2881493 A1 20150610; **EP 2881493 B1 20160824**; CN 104694873 A 20150610; CN 104694873 B 20180316; PL 2881493 T3 20170228; US 2015159262 A1 20150611; US 9738964 B2 20170822

DOCDB simple family (application)

EP 13196075 A 20131206; CN 201410734836 A 20141204; PL 13196075 T 20131206; US 201414557592 A 20141202