

Title (en)

PROCESS FOR PRODUCING A COMPONENT HAVING IMPROVED ELONGATION AND BREAK PROPERTIES

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES BAUTEILS MIT VERBESSERTEN BRUCHDEHNUNGSEIGENSCHAFTEN

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE PIÈCE POSSÉDANT DES PROPRIÉTÉS D'ALLONGEMENT À LA RUPTURE AMÉLIORÉES

Publication

**EP 2366034 A1 20110921 (DE)**

Application

**EP 09795964 A 20091211**

Priority

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- DE 102008055514 A 20081212

Abstract (en)

[origin: WO2010066896A1] The invention relates to a process for producing a component having improved elongation at break properties, in which a component (6) is firstly produced, preferably in a hot forming or press curing process (4), and the component (6) is heat treated after hot forming and/or press curing (4), where the heat treatment temperature T and the heat treatment time t essentially fulfill the numerical relationship  $T = 900 - t \cdot 0.087$ , where the heat treatment temperature T is in °C and the heat treatment time t is in seconds. The invention also relates to a component, in particular an automobile body work component or the chassis of a motor vehicle, which has been produced by such a process. The invention further relates to the use of such a component as part of an automobile body or a chassis of a motor vehicle.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2010066896A1

Citation (examination)

MAIKRANZ-VALENTIN M ET AL: "Eigenschaftsoptimierte Bauteile durch modifizierte Prozessrouten beim Formhärten", MODERNE THERMOMECHANISCHE PROZESSSTRATEGIEN IN DER STAHLUMFORMUNG. WORKSHOP, DÜSSELDORF, MAY 10-11, 2007., 10 May 2007 (2007-05-10), pages 115 - 126, XP009120782

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