

Title (en)

IMPROVED METHOD FOR PRODUCING A MOTOR VEHICLE BODY STRUCTURE COMPONENT

Title (de)

VERBESSERTES VERFAHREN ZUR HERSTELLUNG EINER KAROSSERIESTRUKTURKOMPONENTE EINES KRAFTFAHRZEUGES

Title (fr)

PROCEDE AMELIORE DE FABRICATION DE COMPOSANT DE STRUCTURE DE CAISSE AUTOMOBILE

Publication

**EP 3607104 A1 20200212 (FR)**

Application

**EP 18718608 A 20180403**

Priority

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- FR 2018050829 W 20180403

Abstract (en)

[origin: WO2018185425A1] The invention relates to a method for producing a stamped component of motor vehicle bodywork or body structure from aluminium alloy comprising the steps of producing a metal sheet or strip of thickness between 1.0 and 3.5 mm in an alloy of composition (% by weight): Si: 0.60-0.85; Fe: 0.05-0.25; Cu: 0.05-0.30; Mn: 0.05-0.30; Mg: 0.50-1.00; Ti: 0.02-0.10; V: 0.00-0.10 with Ti + V  $\leq$  0.10, other elements each < 0.05, and < 0.15 in total, with the remainder aluminium, with Mg < -2.67 x Si +2.87, dissolving and steeping, pre-tempering, maturation for between 72 hours and 6 months, stamping, tempering at a temperature of around 205°C with a hold time between 30 and 170 minutes or tempering at a time-temperature equivalent, painting and "bake hardening" of the paints at a temperature of 150 to 190°C for 15 to 30 minutes. The invention also relates to a stamped component of motor vehicle bodywork or body structure, also called a "body in white" produced by such a method.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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