Title (en)

METHOD FOR PRODUCING A MOTOR VEHICLE RIM MADE OF AN ALUMINUM ALLOY FOR A WHEEL OF A MOTOR VEHICLE AND CORRESPONDING MOTOR VEHICLE RIM

Title (de)

VERFAHREN ZUM HERSTELLEN EINER KRAFTWAGENFELGE AUS EINER ALUMINIUMLEGIERUNG FÜR EIN RAD EINES KRAFTFAHRZEUGS SOWIE ENTSPRECHENDE KRAFTWAGENFELGE

Title (fr)

PROCÉDÉ DE PRODUCTION D'UNE JANTE DE VÉHICULE AUTOMOBILE EN ALLIAGE D'ALUMINIUM POUR UNE ROUE D'UN VÉHICULE AUTOMOBILE ET JANTE DE VÉHICULE AUTOMOBILE CORRESPONDANTE

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Application

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Abstract (en)

[origin: WO2021144063A1] The invention relates to a method for producing a motor vehicle rim (1) made of an aluminium alloy for a wheel of a motor vehicle, the motor vehicle rim (1) having a rim base (2) limited on opposite sides by an outer horn (6) and an inner horn (7), a hub (4) with a central recess (8) and a hole circle (9), and a rim centre (3) connecting the rim base (2) and the hub (4) to one another. According to the invention, the motor vehicle rim (1) is produced in one piece and continuously in a casting mould by pressure casting of a casting material, the casting material being the aluminium alloy with the constituents 6.5% by weight to 12.0% by weight silicon, a maximum of 0.80% by weight manganese, 0.25% by weight to 0.60% by weight magnesium, 0.08% by weight to 0.50% by weight zinc, a maximum of 0.30% by weight of zirconium, a maximum of 0.025 % by weight of strontium, a maximum of 0.5 % by weight of unavoidable impurities, and the remainder being aluminium, and the motor vehicle rim (1) is heat-treated after the die casting, wherein the heat treatment comprises a single-stage or multi-stage solution annealing, a subsequent quenching and a subsequent single-stage or multi-stage artificial ageing. The invention further relates to a motor vehicle rim (1). (Fig.)

IPC 8 full level

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Citation (search report)

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