

Title (en)

METHOD FOR MAKING A WHEEL FOR A LAND MOTOR VEHICLE

Title (de)

VERFAHREN ZUM HERSTELLEN EINES MOTORKRAFTFAHRZEUGRADES

Title (fr)

PROCEDE DE REALISATION D'UNE ROUE POUR VEHICULE TERRESTRE A MOTEUR

Publication

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Application

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Abstract (en)

[origin: WO9728914A1] A method for making a wheel for a land motor vehicle, comprising a wheel disc and a substantially cylindrical wheel rim. The wheel disc consists of a substantially planar central portion with a bearing for centring and fixing the wheel on an axle hub, a substantially tapered inner connecting portion, and a further oppositely tapered portion defining a bulge with said inner connecting portion. The bulge has a large radius of curvature and the oppositely tapered portion behind the bulge ends in a flange for joining the disc to the rim. The method comprises selecting, for a given grade of steel, a sheet metal blank with a thickness defined by calculating the stress value in the critical stress areas of the wheel in use; shaping and assembling the wheel disc and rim; and generating an internal stress field in the critical stress areas of the wheel in use, which field counters the stress field induced during the shaping step and by the working load on the wheel, in order to compensate for the induced stress arising from the wheel disc or rim forming step, and so that the working stress does not exceed the maximum allowable stress.

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