

Title (en)
DEVICE AND METHOD FOR PRODUCING A LIGHTWEIGHT METAL WHEEL

Title (de)
VORRICHTUNG UND VERFAHREN ZUM HERSTELLEN EINES LEICHT-METALLRADES

Title (fr)
DISPOSITIF ET PROCÉDÉ DE FABRICATION D'UNE ROUE EN MÉTAL LÉGER

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Abstract (en)
[origin: WO2013060451A1] The invention relates to a device for producing a metal wheel (1) from a preform, with stretching rollers (3) which act on the rim region of the preform and by means of which a rim (1.1) is brought into its final form, which device is further characterized by freely rotatable rollers (4) that are arranged underneath the stretching rollers (3) and interact with them, for the forming of a rim flange (1.7). The invention further proposes for this purpose a method for producing a metal wheel (1) from a preform, wherein the preform of the metal wheel (1) to be produced is fitted onto a clamping mandrel (2) and set in rotation, stretching rollers (3) act on the preform and exert radial pressure on it in the upper region of a rotationally symmetrical shell thereof and move along the shell wall of the preform, while compressing and stretching the shell wall to form a rim (1.1), with a main movement component parallel to the axis of rotation (2.1) of the preform, wherein the method is characterized in that the preform is engaged from below by freely rotating rollers (4), which are arranged around the circumference of the preform at the same circumferential angles as the stretching rollers (3), and so the stretching rollers form a rim flange (1.7) by stretching preform material against the freely rotating rollers engaging from underneath.

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