Title (en)
METHOD FOR PRODUCING A GEAR

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES ZAHNRADES

Title (fr)
PROCÉDÉ DE PRODUCTION D'UNE ROUE DENTÉE

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Application
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Abstract (en)
[origin: WO2015124708A1] The invention relates to a method for producing at least one gear, in particular a helically toothed gear, wherein the gear is produced from a gear blank (20, 38, 50, 52, 62, 72, 80, 82, 84) pressed and sintered with an oversize in the region of the set of teeth (18), wherein the gear blank (20, 38, 50, 52, 62, 72, 80, 82, 84) has two opposite end faces and a circumference. In the method, the gear blank (20, 38, 50, 52, 62, 72, 80, 82, 84) is clamped in a clamping means (42). The gear blank (20, 38, 50, 52, 62, 72, 80, 82, 84) is compressed in the region of the oversize by means of the engagement of at least one circumferential tool (10, 28) having a set of mating teeth (12, 26) that engages with the set of teeth (18) of the gear blank (20, 38, 50, 52, 62, 72, 80, 82, 84), wherein the gear blank (20, 38, 50, 52, 62, 72, 80, 82, 84) is radially clamped over the circumference by the clamping means (42) at both end faces during the compression of the gear blank, wherein each individual tooth (56, 66) of the set of teeth (18) of the gear blank (20, 38, 50, 52, 62, 72, 80, 82, 84) is supported by the clamping means (42) substantially over the entire tooth height. In this way, the quality of the set of teeth can be improved. The invention further relates to a device and to a clamping means.

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