

Title (en)

METHOD FOR PRODUCING A GEAR WHEEL FOR AN ELECTROMECHANICAL POWER ASSISTED STEERING SYSTEM

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES GETRIEBERADS FÜR EINE ELEKTROMECHANISCHE HILFSKRAFTLENKUNG

Title (fr)

PROCÉDÉ DE PRODUCTION DE ROUE DENTÉE POUR SYSTÈME DE DIRECTION ASSISTÉE ÉLECTROMÉCANIQUE

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Application

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Abstract (en)

[origin: WO2021175750A1] The present invention relates to a method for producing a gear wheel comprising a hollow shaft (4), which is connected, by a connecting element (6) encapsulated in plastic by injection moulding, to a ring gear (5) extending coaxially around the hollow shaft at a radial distance, in which method the ring gear (5) and the hollow shaft (4) are positioned in the mould cavity (73) of an injection mould (7), in an ejector-side mould half (72), which is axially closed by a nozzle-side mould half (71), and molten plastic is injected axially into the intermediate space (8) between the ring gear (5) and the hollow shaft (4), through at least one injection nozzle (77, 79) in the nozzle-side mould half (71). In order to provide a method that is less laborious and offers a broader range of application possibilities, it is proposed according to the invention that, when the injection mould (7) is closed, an axial opening (43) at the end face of the hollow shaft (4) is closed and sealed with respect to the intermediate space (8) by the nozzle-side mould half (71).

IPC 8 full level

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