

Title (en)
METHOD FOR MESHING A STARTER PINION OF A STARTING DEVICE INTO A RING GEAR OF AN INTERNAL COMBUSTION ENGINE

Title (de)
VERFAHREN ZUM EINSPIREN EINES ANDREHRITZELS EINER STARTVORRICHTUNG IN EINEM ZAHNKRANZ EINER
BRENNKRAFTMASCHINE

Title (fr)
PROCÉDÉ POUR ENGRENER UN PIGNON DE DÉMARRAGE D'UN DISPOSITIF DE DÉMARRAGE DANS UNE COURONNE DENTÉE D'UN
MOTEUR À COMBUSTION INTERNE

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Application
EP 12812615 A 20121220

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Abstract (en)
[origin: WO2013098172A1] The invention relates to a method for meshing a starter pinion (19) of a starting device (16) into a ring gear (13) of an internal combustion engine (10). The internal combustion engine (10) has a driveshaft (22), and the starting device (16) has a starter motor (25), said driveshaft (22) having a variable rotational speed (n). The internal combustion engine (10) is switched off in a method step (S1), and the starter pinion (19), which is not being rotationally driven by the starter motor (25), is then advanced in the direction of the ring gear (13) by a toe-in actuator (28) by means of a toe-in force (FV) in a method step (S2) until the starter pinion contacts the ring gear. A meshing force (FE) is then exerted onto the starter pinion (19) in a controlled manner in an additional method step (S3) in order to mesh the starter pinion (19) into a tooth gap (34) of the ring gear (13).

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