

Title (en)
STARTER MOTOR FOR A COMBUSTION ENGINE AND ASSOCIATED METHOD

Title (de)
STARTERMOTOR FÜR EINEN VERBRENNUNGSMOTOR UND ZUGEHÖRIGES VERFAHREN

Title (fr)
DEMARREUR POUR UN MOTEUR À COMBUSTION ET SON PROCEDE

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Application
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Abstract (en)
[origin: WO2012022897A2] The invention relates to a starter motor (1) with drive assembly for a combustion engine, and to the associated method. The starter motor comprises an electric motor in which, when electrically powered, it drives the rotation of its rotor shaft about its longitudinal axis in a direction of rotation for starting. The starter motor further comprises a drive shaft that can be rotationally coupled to the rotor shaft, a pinion (13) mounted on the drive shaft and movable in a translational movement between a rest position and an active position by a movement system. Furthermore, the starter motor comprises a coupling system (30) that couples a rotary movement in one direction of rotation of the rotor shaft (5) to the pinion (13), the coupling system (30) being able to move from an uncoupled state into a coupled state and vice versa, in which, in the coupled state, the rotor shaft (5) is firmly attached to the pinion (13) in the direction of rotation of the starting, and in which in the uncoupled state, the pinion (13) is disconnected from the rotor shaft (5) in both directions of rotation. The starter motor further comprises a movement system for moving the pinion (13) from its rest position into the active position and vice versa, moving the coupling system (30) into the uncoupled state as it moves the pinion into the active position.

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