

Title (en)

METHOD AND DEVICE FOR START-STOP SYSTEMS OF INTERNAL COMBUSTION ENGINES IN MOTOR VEHICLES

Title (de)

VERFAHREN UND VORRICHTUNG FÜR START-STOPP-ANLAGEN VON BRENNKRAFTMASCHINEN IN KRAFTFAHRZEUGEN

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR GROUPES MARCHE-ARRÊT DE MOTEURS À COMBUSTION INTERNE DE VÉHICULES À MOTEUR

Publication

EP 2379875 A1 20111026 (DE)

Application

EP 09740119 A 20091020

Priority

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Abstract (en)

[origin: WO2010069645A1] The invention relates to a starting method for internal combustion engines in motor vehicles comprising a start-stop system and to a starting device (10) for carrying out said method, said starting device comprising a starter motor (11) and an insertion device (12, 20) which axially inserts a slip-on pinion (13) into a crown gear (14) of the internal combustion engine when a stop phase begins. In order to minimize the period until a re-start of the engine is possible, the pinion (13) is resiliently inserted into the still rotating crown gear (14) in the rotation direction of the crown gear by means of a torsion spring (25) when the stop phase begins, once the internal combustion engine (15) is switched off but before it comes to a standstill and with the starter motor (11) switched off. Either the pinion (13) as a whole or only a front part of the pinion (40) separated as a pilot gear (41) is inserted into the crown gear (14) of the machine (10) in a rotationally elastic manner.

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

See references of WO 2010069645A1

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