

Title (en)

Starter with improved pinion drive and return structure

Title (de)

Anlasser mit einer verbesserten Antriebs- und Rückstellvorrichtung des Ritzels

Title (fr)

Démarrreur muni d'une structure améliorée pour l'entraînement et le retour du pignon

Publication

**EP 0819847 B1 20010221 (EN)**

Application

**EP 97108393 A 19970523**

Priority

JP 18568096 A 19960716

Abstract (en)

[origin: EP0819847A1] A pinion moving member (4) on an output shaft (3) is pushed forward by a pinion pushing member (90; 6) such as a lever which is driven by a plunger (40) of an electromagnet switch (5). After a pinion gear (7) of the pinion moving member (4) abuts a ring gear (8), reaction force is stored in a spring (90; 50) as the plunger (40) of the electromagnet switch (5) moves further. When the pinion gear (7) comes into meshing engagement with the ring gear (8) by the reaction force of the spring (90; 50), a retreat restricting member (3c, 81; 9) restricts retreat of the pinion moving member (4). The retreat restricting member (3c, 81; 9) are provided separately from the pinion pushing member (90; 6) so that the the pinion pushing member (90; 6) driven by the electromagnet switch (5) need not restrict the retreat of the pinion moving member (4). <IMAGE>

IPC 1-7

**F02N 15/06**

IPC 8 full level

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CPC (source: EP)

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