

Title (en)

Fastener driving tool with automatic return of plunger to firing position

Title (de)

Eintreibgerät für Befestigungsmittel mit einem automatisch zur Initialposition zurückkehrenden Kolben

Title (fr)

Appareil d'entraînement de tampon par masselotte à retour automatique en position du tir

Publication

EP 0798084 B1 20021211 (FR)

Application

EP 97400523 A 19970307

Priority

FR 9603722 A 19960326

Abstract (en)

[origin: EP0798084A1] The gun drives a plug (6) for fixing a part to a support by a plunger weight (10). The plunger is propelled to the front of the gun (9) under the action of combustion gases from a cartridge (11) located in a gun combustion chamber (15). A return chamber, along the plunger, has a front space (30) closed by the plunger front surface (28) and a rear space (22). Both spaces are in communication during displacement of the plunger. The rear space, after a first displacement of the plunger to the front, communicates with the combustion chamber. After communication between the front and rear spaces, the rear space is isolated from the front space after a second displacement towards the front of the plunger. Following this, the rear space communicates with the outside of the gun. The combustion gas expansion is trapped in the front space and returns the plunger to the rear firing position.

IPC 1-7

B25C 1/14; **B25C 1/18**

IPC 8 full level

B25C 1/08 (2006.01); **B25C 1/14** (2006.01); **B25C 1/18** (2006.01)

CPC (source: EP KR US)

B25C 1/14 (2013.01 - KR); **B25C 1/143** (2013.01 - EP US); **B25C 1/18** (2013.01 - EP US)

Cited by

DE102010036723A1; FR2772298A1; EP0972615A3; US6123242A; EP2412482A2

Designated contracting state (EPC)

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