

Title (en)  
Powder-actuated driving tool

Title (de)  
Pulverkraftbetriebenes Setzgerät

Title (fr)  
Outil de scellement actionné par de la poudre

Publication  
**EP 0621110 B1 19960911 (DE)**

Application  
**EP 94810192 A 19940329**

Priority  
DE 4312567 A 19930417

Abstract (en)  
[origin: US5394702A] An explosive powder charge operated setting tool uses compressed propellant gases for returning a piston (1) from an end position to a starting position. The piston (1) is axially displaceable by the propellant gases within an axially extending guide bore (2a) in a piston guide (2). The propellant gases flow from the guide bore (2a) through a first opening (6) into an axially extending channel (5) outside the piston guide (2) and then through a second opening (7) in the region of the end position of the piston (1) back to the guide bore. After the piston (1) is driven into the end position, compressed propellant gases within the guide bore (2a) return the piston to the starting position where it impacts against the base (4c) of a cartridge carrier (4) located at the starting position. When the piston (1) is stopped, the cartridge carrier (4) is displaced to a limited extent opposite to the setting direction of the tool. To afford the limited displacement, the cartridge carrier (4) is connected to the housing part (3) laterally enclosing the piston guide (2) by sawtooth-shaped threads (3a, 4a) providing clearances.

IPC 1-7  
**B25C 1/14**

IPC 8 full level  
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