

Title (en)  
Grooved piston

Title (de)  
Rillenkolben

Title (fr)  
Piston avec gorges

Publication  
**EP 0782902 B1 20010411 (DE)**

Application  
**EP 96810524 A 19960808**

Priority  
DE 19548870 A 19951227

Abstract (en)  
[origin: EP0782902A1] The explosively driven fastener apparatus comprises a carrier (2) which contains a cartridge receiver (3) and a piston guide (4) relative to it. A drive piston (6) has a cylindrical shaft part (7) and a head section (8) and is driven by gas from a rearward starting position to a forward end position. A catch mechanism (9) is provided for the piston which comprises a ball (11) mounted on a spring ring (10), at its conical inner contour. The shaft part of the piston has circumferential indentations (13) in the end area in which the ball engages.

IPC 1-7  
**B25C 1/14**; **B25C 1/18**

IPC 8 full level  
**B25C 1/10** (2006.01); **B25C 1/14** (2006.01); **B25C 1/18** (2006.01)

CPC (source: EP KR US)  
**B25C 1/10** (2013.01 - KR); **B25C 1/14** (2013.01 - EP US)

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**DE 19548870 A 19951227**; DE 59606761 T 19960808; EP 96810524 A 19960808; JP 34723096 A 19961226; KR 19960042174 A 19960924; TW 85109861 A 19960814; US 78007896 A 19961223