

Title (en)  
Tool bit/handle connector

Title (de)  
Schneideinsatz-Griff Verbindung

Title (fr)  
Accouplement outil/tige

Publication  
**EP 1457292 A1 20040915 (EN)**

Application  
**EP 03003640 A 20030218**

Priority  
EP 03003640 A 20030218

Abstract (en)  
A connector includes an extension shank (10), a sleeve (20), a control bar (30), a spring (17), a fastener (16) and a ball detent (12). The extension shank defines an axial cavity (13) and first (14) and second (15) holes communicated with the axial cavity. The sleeve defines a tunnel (21) and a hole (23) communicated with the tunnel. The control bar defines a hole (31), a deep recess (32) and a shallow recess (33) located near the deep recess. The spring is put in the axial cavity before the control bar is inserted in the axial cavity. The fastener is inserted in the hole defined in the sleeve, the first hole defined in the extension shank and the hole defined in the control bar for combining the sleeve with the control bar. The diameter of the first hole defined in the extension shank is greater than that of the fastener for allowing the sleeve and the control bar to move relative to the extension shank. The ball detent is trapped in the second hole defined in the extension shank. The spring keeps the control bar in a position where the ball detent includes a portion received in the shallow recess and a second portion extending from the second hole defined in the extension shank. The sleeve and the control bar can be moved to a second position where the first portion of the ball detent is received in the deep recess and the second portion of the ball detent is hidden in the second hole defined in the extension shank. <IMAGE>

IPC 1-7  
**B25B 23/00**

IPC 8 full level  
**B25B 23/00** (2006.01)

CPC (source: EP)  
**B25B 23/0035** (2013.01)

Citation (search report)  
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