

Title (en)
Adjustable safety utility knife

Title (de)
Einstellbares Sicherheitsmehrzweckmesser

Title (fr)
Couteau universel de sécurité réglable

Publication
EP 1077117 A2 20010221 (EN)

Application
EP 00117509 A 20000814

Priority
• US 37452299 A 19990814
• US 37452399 A 19990814
• US 37452499 A 19990814

Abstract (en)
An adjustable safety utility knife includes an elongated ergonomically shaped handle formed of two elongate shell members (14a,14b) each having a peripheral edge (16a,16b) and an outer generally convex surface (18a,18b) and an inner generally concave surface (20a,20b). The shell members are fastened at the peripheral edges along a vertical parting plane (P) to form an elongated internal cavity (24). The handle has a slot-like aperture (36) at the front end (26) substantially aligned with the parting plane and dimensioned for passage of a flat cutting blade (38) therethrough. A guide element (39) within the elongated cavity (24) guides the cutting blade between a first position for safely storing the blade fully inside said cavity and a second position for selectively extending the blade beyond the aperture to expose at least a portion thereof. A manually operated button (40) arranged on the top surface is coupled to the guide element for selectively moving the blade between the first and second positions. The handle has a rear opening at the back end for providing access to the elongated internal cavity. A carrier frame (50) has a blade cartridge receiving compartment (50') and dimensioned to be removably receivable within the cavity through the rear opening between a retracted position in which the carrier frame is at least partially moved exteriorly of the back end to provide access of the cartridge receiving compartment. A blade cartridge (52) for storing a plurality of flat cutting blades is receivable within the blade cartridge receiving compartment. A carriage (139) includes a locking element for normally locking a cutting blade mounted thereon to substantially fix the cutting blade against relative longitudinal movements between the cutting blade and carriage. The locking element includes an unlocking element (154) the actuation of which releases the cutting blade to permit relative longitudinal movements between the cutting blade and the carriage. Slip resistant elements are secured to the shell members along the top and bottom surface between a rearwardmost operative position of the manually operated button and the back end of the handle.

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B26B 5/00

IPC 8 full level
B26B 5/00 (2006.01)

CPC (source: EP)
B26B 5/001 (2013.01)

Cited by
DE102005040730B3; GB2393144A; EP2113346A1; EP1694474A4; GB2392865A; GB2392865B; US6971178B2

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