(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
4 November 2004 (04.11.2004)

PCT

(10) International Publication Number
WO 2004/093924 A2

(51) International Patent Classification[7]: A61L

(21) International Application Number:
PCT/US2004/012213

(22) International Filing Date: 21 April 2004 (21.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

10/420,614	22 April 2003 (22.04.2003)	US
60/519,614	14 November 2003 (14.11.2003)	US

(71) Applicant *(for all designated States except US)*: **BECTON, DICKINSON AND COMPANY** [US/US]; 1 Becton Drive, Franklin Lakes, NJ 07417 (US).

(72) Inventors: **MORAWSKI, Michael**; 151 Pilgrim Road, Haverhill, MA 01832 (US). **COTE, Dana**; 22 Lewis Lane, Saugus, MA 01906 (US). **THRAILKILL, Patrick**; 137 Woodin Street, Hamden, CT 06514 (US). **SEEBAUER, David**; 53 Shagbark Drive, Southington, CT 06489 (US). **RAJASEKARAN, Mohan**; 295 Redstone Hill Road, Apt. 24, Bristol, CT 06010 (US). **RAPP, Brian**; 9 Mizoras Drive, Nashua, NH 03062 (US).

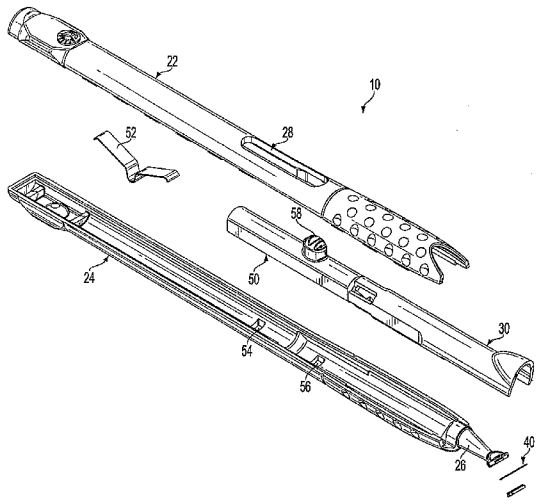
(74) Agents: **HOLMES, John** et al.; ROYLANCE, ABRAMS BERDO & GOODMAN, L.L.P., 1300 19th Street, N.W., Suite 600, Washington, DC 20036 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: SURGICAL KNIFE SAFETY HANDLE



(57) Abstract: A surgical knife safety device (10 or 100) having a handle (20 or 120), a blade (40 or 140) connected to the handle, and a guard (30 or 130) carried by the handle for sliding movement between a retracted position in which the blade is exposed for use, and an extended position for covering the sharp cutting edge of the blade. In the retracted position, an enlarged guard (30 or 130) radius is provided at the distal end of the handle (20 or 120) to allow improved handle control and blade orientation. The enlarged guard radius is positioned to allow the user to firmly grip a large distal handle portion which is preferably molded as a single piece with the blade holder (26 or 126), preventing unwanted blade or handle movement due to guard mechanism tolerances. A spring, such as leaf spring (52 or 152), and a pair of detents (54, 56) or slots (154,156) are provided to fix the guard (30 or 130) in the extended or retracted position, and provide resistance during movement between the two positions. Additionally, an antitravel mechanism is incorporated in the guard to prevent accidental retraction from the fully extended position.

WO 2004/093924 A2

Published:
— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.